

PROJECT ID: 2984-23-72

2984-23-72

COUNTY: MILWAUKEE

MILWAUKEE

ORDER OF SHEETS

Section No.	Title
1	Typical Sections and Details
2	Estimate of Quantities
3	Miscellaneous Quantities
4	Right of Way Plat
5	Plan and Profile
6	Standard Detail Drawings
7	Sign Plates
8	Structure Plans
9	Computer Earthwork Data
9	Cross Sections

TOTAL SHEETS =



DESIGN DESIGNATION

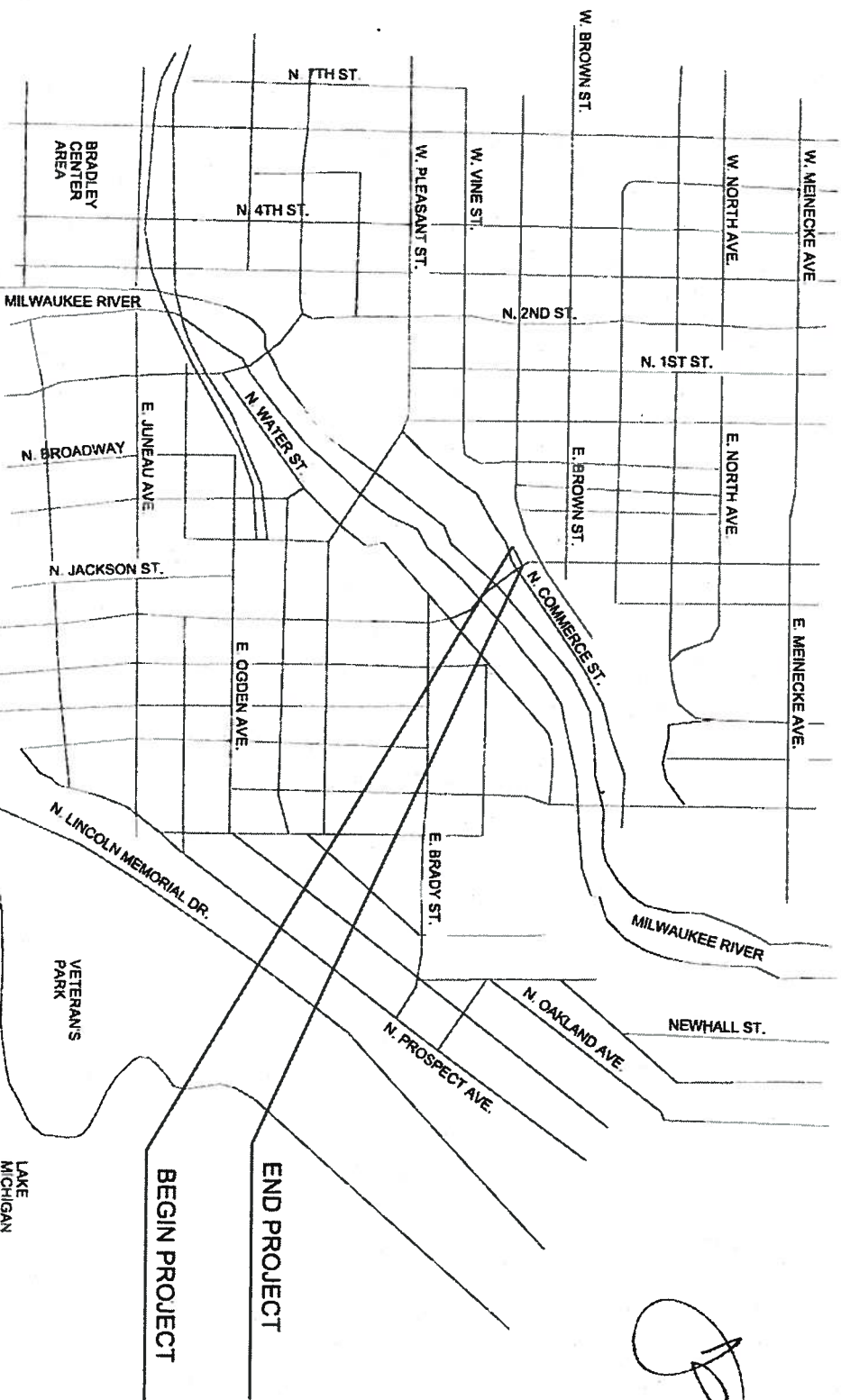
A.A.D.T. =
A.A.D.T. =
D.H.V. =
D.D. =
T. =
DESIGN SPEED =
ESALS =

CONVENTIONAL SYMBOLS

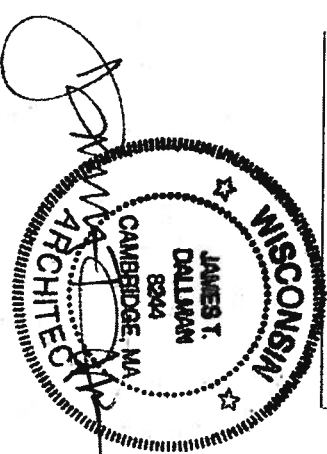
PLAN
CORPORATE LIMITS
PROPERTY LINE
LOT LINE
LIMITED HIGHWAY EASEMENT
EXISTING RIGHT OF WAY
PROPOSED OR NEW ROW LINE
SLOPE INTERCEPT
REFERENCE LINE
EXISTING CULVERT
PROPOSED CULVERT
(Box or Pipe)
COMBUSTIBLE FLUIDS
CAUTION
MARSH AREA
WOODED OR SHRUB AREA

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
HOLTON STREET VIADUCT
TRESTLE CONNECTION
MARSUPIAL BRIDGE
NON HIGHWAY
MILWAUKEE COUNTY

STATE PROJECT NUMBER
2984-23-72



THIS IS A FEDERALLY
FUNDED PROJECT



ACCEPTED FOR

CITY of MILWAUKEE

(Date) (Signature & Title of Official)

ORIGINAL PLANS PREPARED BY

LA DALLMAN ARCHITECTS, Inc

225 E. St. Paul Ave. Suite 302

W. Milwaukee, WI 53202

T: 414 226 7450

F: 414 226 7451

WWW.LADALLMAN.COM

15 JUNE 2010 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor

Designer

Project Manager

Regional Engineer

Regional Supervisor

C.O. Examiner

APPROVED FOR THE DEPARTMENT

DATE (Signature)

FILE NAME

PLOT DATE

PLOT BY

PLOT NAME

PLOT SCALE

GENERAL NOTES

1. The Contractor is to comply with the latest and most current additions of state and local building codes and regulations as well as Local, State and Federal regulations regarding health and safety in the workplace.
2. All existing conditions shall be verified by the Contractor prior to fabrication and construction. Any discrepancies between existing conditions and these drawings which affect the scope and the intent of the Contract Documents shall be brought to the attention of the Architect in writing immediately.
3. Existing viaduct and adjacent spaces are to be protected during demolition and construction as required. Any existing conditions damaged during construction are to be repaired and/or replaced to match the original existing condition at the Contractor's expense.
4. The Contractor is to provide all necessary temporary and weather protection for the existing structure and new construction during the full scope of construction activity on the project.
5. See the WisDot Specifications and the Special Provisions Sections of the Specification Requirements of the project.
6. Any errors or omissions are to be brought to the attention of the Architect.
7. Quantities can be found on drawings A1.0, S1.2 and S2.1

GENERAL INFORMATION

ARCHITECT	ELECTRICAL
LA DALLMAN ARCHITECTS INC.	THE MATRX GROUP ENGINEERING CONSULTANTS
225 E. ST. PAUL AVE. SUITE 302	311 E. CHICAGO ST. SUITE 310
MILWAUKEE, WI 53202	MILWAUKEE, WI 53202
414.225.7450	414.329.2827
STRUCTURAL ENGINEER	CITY OF MILWAUKEE
GRAF EF ANHALT SCHLOEMER AND ASSOCIATES INC.	PLANNING & DEVELOPMENT
125 S. 84TH ST. SUITE 401	841 N. BROADWAY RM 919
MILWAUKEE, WI 53214	MILWAUKEE, WI 53202
414.259.1500	414.286.2451

DRAWING INDEX

NUMBER	TITLE
G1.0	GENERAL
A1.0	SITE PLAN AND QUANTITIES
A1.1	TRESTLE WEST PLAN
A1.2	TRESTLE EAST PLAN
A1.3	NORTH LANDING PLAN
A2.0	TRESTLE SECTIONS
A2.1	TRESTLE SECTIONS
A2.2	TRESTLE SECTIONS
A2.3	TRESTLE SECTIONS
A3.0	GUARDRAIL DETAILS
A3.1	GUARDRAIL DETAILS
A3.2	GUARDRAIL DETAILS
A3.3	HANDRAIL DETAILS
A3.4	CONCRETE SLAB DETAILS
A3.5	CONCRETE DETAILS
A3.6	WOOD DETAILS
A3.7	WOOD DETAILS
A3.8	NORTH LANDING DETAILS
A3.9	GUARDRAIL DIAGRAMS
A4.0	LANDSCAPE PLAN
E0.0	ELECTRICAL GENERAL NOTES AND SCHEDULES
E1.0	OVERALL SITE PLAN - ELECTRICAL
E1.1	NORTH LANDING - ELECTRICAL PLAN
E1.2	TRESTLE EAST - ELECTRICAL PLAN
E1.3	TRESTLE WEST - ELECTRICAL PLAN
E1.4	TRESTLE GUARDRAIL LIGHTING PLAN
E1.5	ELECTRICAL DETAILS
S1.1	GENERAL PLAN
S1.2	QUANTITIES AND GENERAL NOTES
S1.3	DEMOLITION PLAN
S1.4	FRAMING DETAILS
S1.5	DETAILS
S1.6	CONCRETE DECK DETAILS
S1.7	DECK DETAILS
S1.8	DECORATIVE RAILING DETAILS
S1.9	WEST STAIRS
S2.1	GENERAL PLAN AND ELEVATION
S2.2	CROSS SECTION AND DETAILS
S3.1	PLAZA BENCH

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225 E. St. Paul Ave. Suite 302
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fax 225.7451

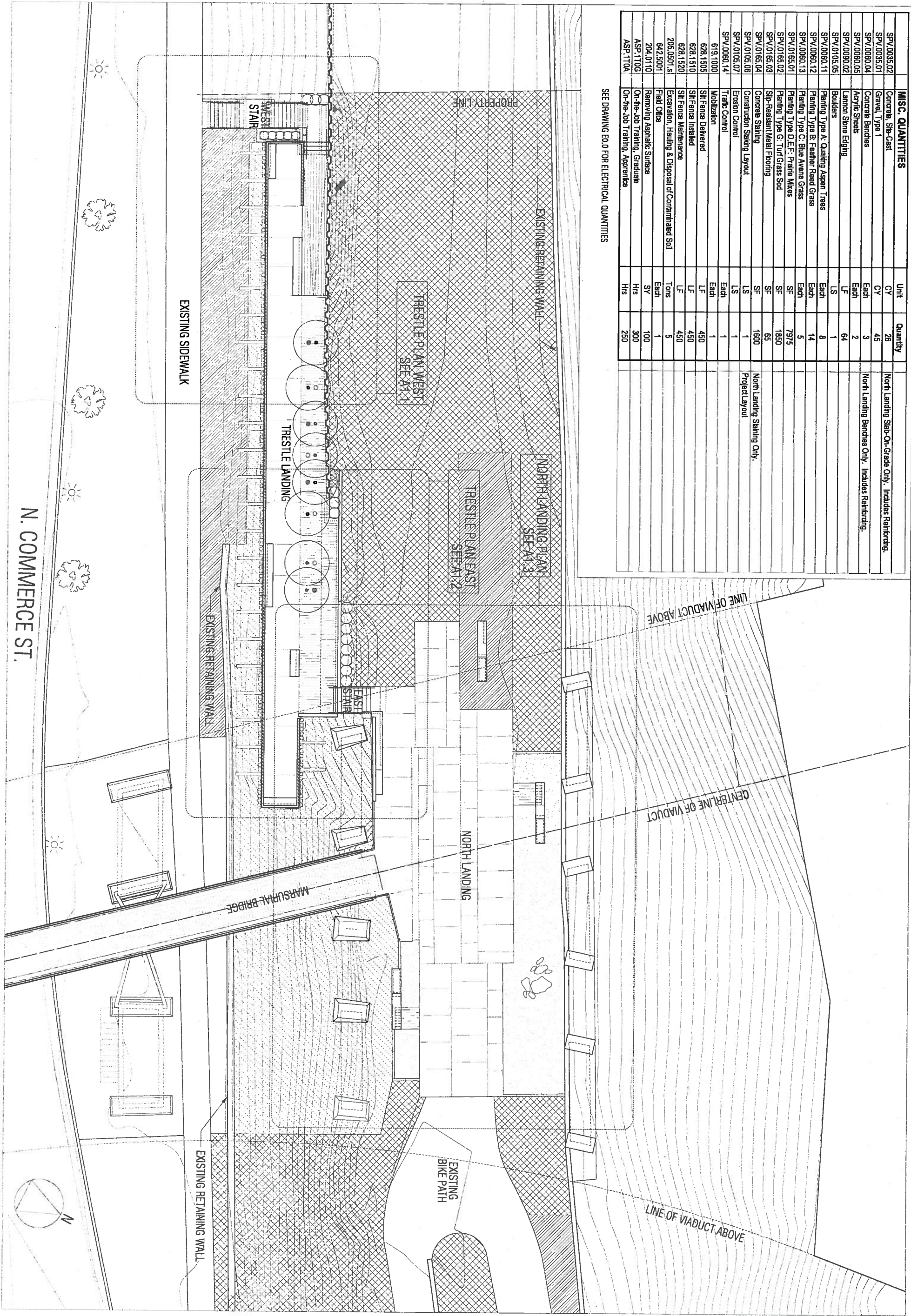
REVISIONS		
NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
GENERAL INFORMATION

DRAWN BY	BUT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	03.29.2011
SCALE	NIS

MISC. QUANTITIES			
SPV.0035.02	Concrete, Silt-Cast	CY	26
SPV.0035.01	Gravel, Type 1	CY	45
SPV.0060.04	Concrete Benches	Each	3
SPV.0060.05	Acrylic Sheets	Each	2
SPV.0090.02	Lantern Stone Edging	LF	64
SPV.0105.05	Boulders	LS	1
SPV.0060.11	Planting Type A: Quaking Aspen Trees	Each	8
SPV.0060.12	Planting Type B: Feather Reed Grass	Each	14
SPV.0060.13	Planting Type C: Blue Avena Grass	Each	5
SPV.0165.01	Planting Type D,E,F: Prairie Mixes	SF	79/5
SPV.0165.02	Planting Type G: Turf Grass Sod	SF	1850
SPV.0165.03	Sip-Resistant Metal Flooring	SF	85
SPV.0165.04	Concrete Staking	SF	1600
SPV.0105.06	Construction Staking Layout	LS	1
SPV.0105.07	Erosion Control	LS	1
SPV.0060.14	Traffic Control	Each	1
619.1000	Mobilization	Each	1
628.1505	Silt Fence Delivered	LF	450
628.1510	Silt Fence Installed	LF	450
628.1520	Silt Fence Maintenance	LF	450
206.0501.s	Excavation, Hauling & Disposal of Contaminated Soil	Tons	5
642.5001	Field Office	Each	1
204.0110	Removing Asphaltic Surface	SY	100
ASP.1103	On-the-Job Training, Graduate	Hrs	300
ASP.1104	On-the-Job Training, Apprentices	Hrs	250

SEE DRAWING E0.0 FOR ELECTRICAL QUANTITIES



TRESTLE CONNECTION

N. COMMERCE ST.

A1.0

DRAWN BY	BJS
CHECKED BY	JTD
PROJECT NO.	0709
DATE	06.15.2010
SCALE	3/16" = 1' - 0"

REVISIONS	
N.O.	DATE DESCRIPTION

CONSTRUCTION DOCUMENTS
TREESTLE EAST PLAN

GENERAL NOTES

- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FOUNDATIONS AND REINFORCEMENT LOCATIONS WITHIN CONCRETE
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING EXISTING UTILITY LOCATIONS

PLANTING TYPE G
SEE A4.0 FOR LANDSCAPING

EXISTING SIDEWALK

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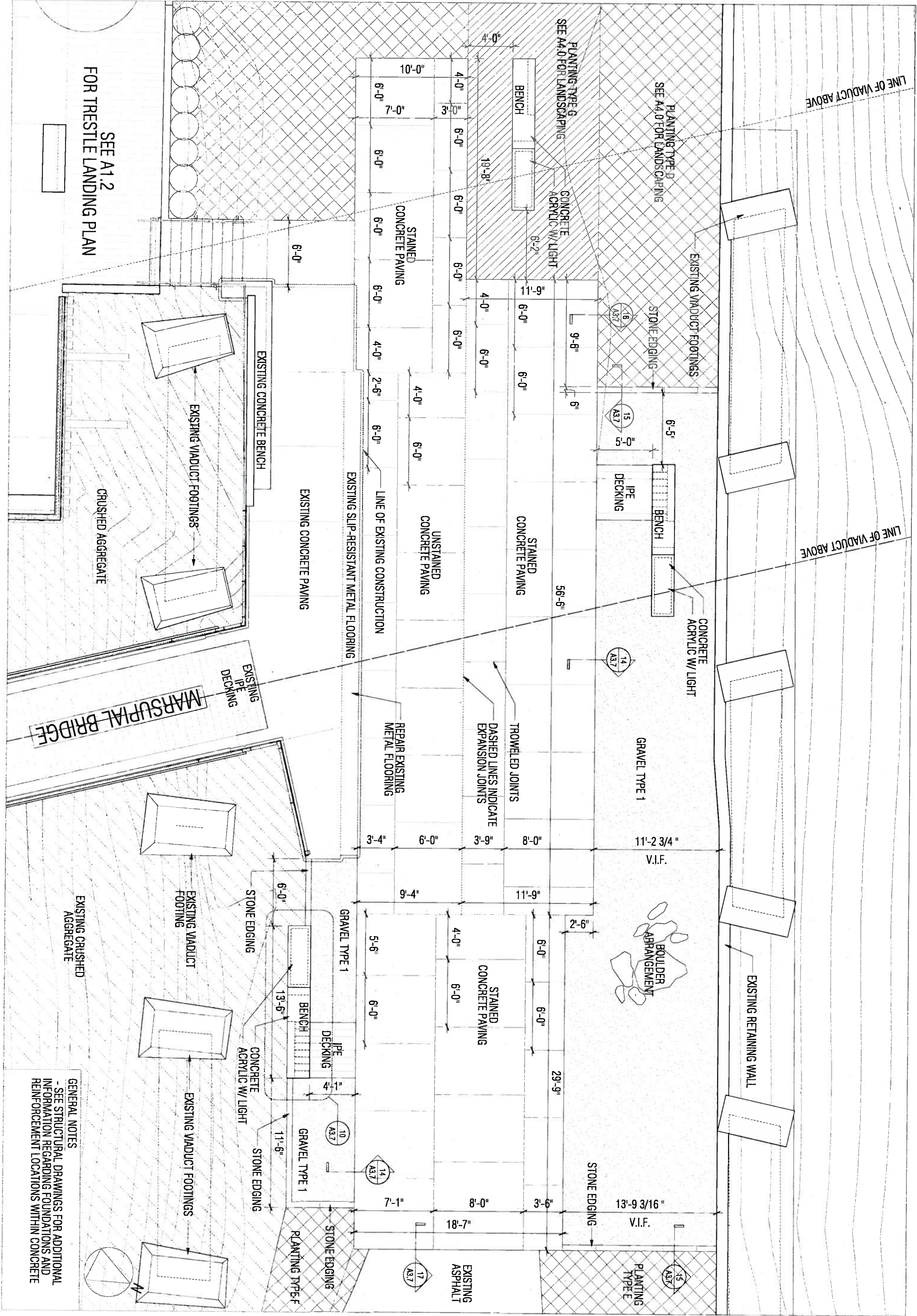
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NO. DATE DESCRIPTION

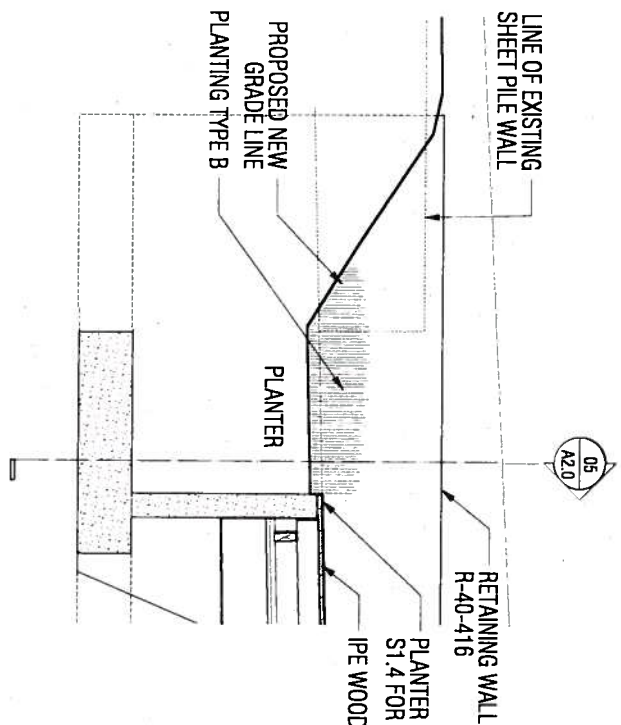
CONSTRUCTION DOCUMENTS
NORTH LANDING PLAN

DRAWN BY
CHECKED BY
PRO. EC. NO.
DATE
SCALE
BUT
JTD
0709
06.15.2010
1/8" = 1'-0"

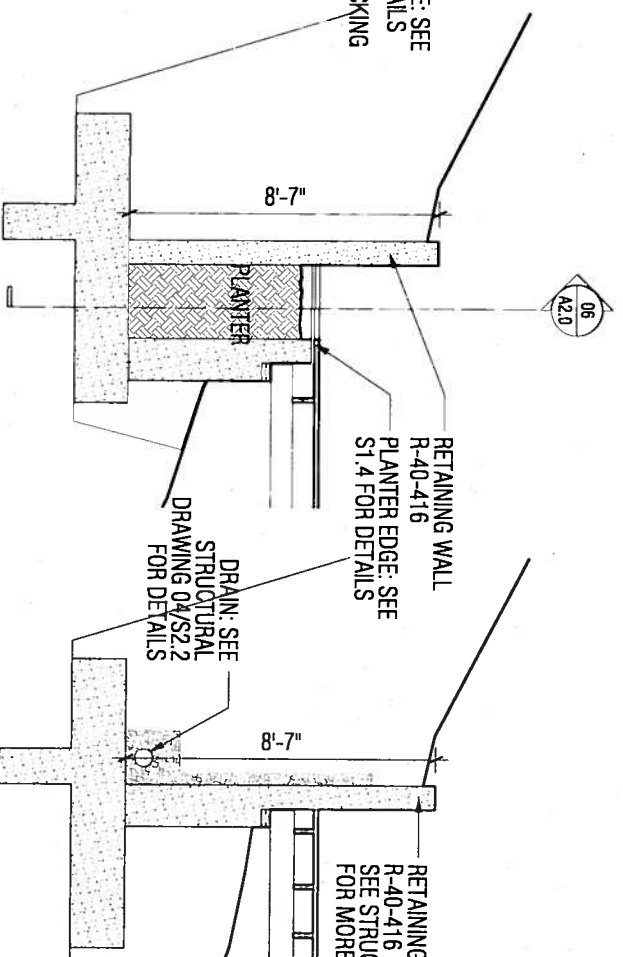
GENERAL NOTES
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL
INFORMATION REGARDING FOUNDATIONS AND
REINFORCEMENT LOCATIONS WITHIN CONCRETE



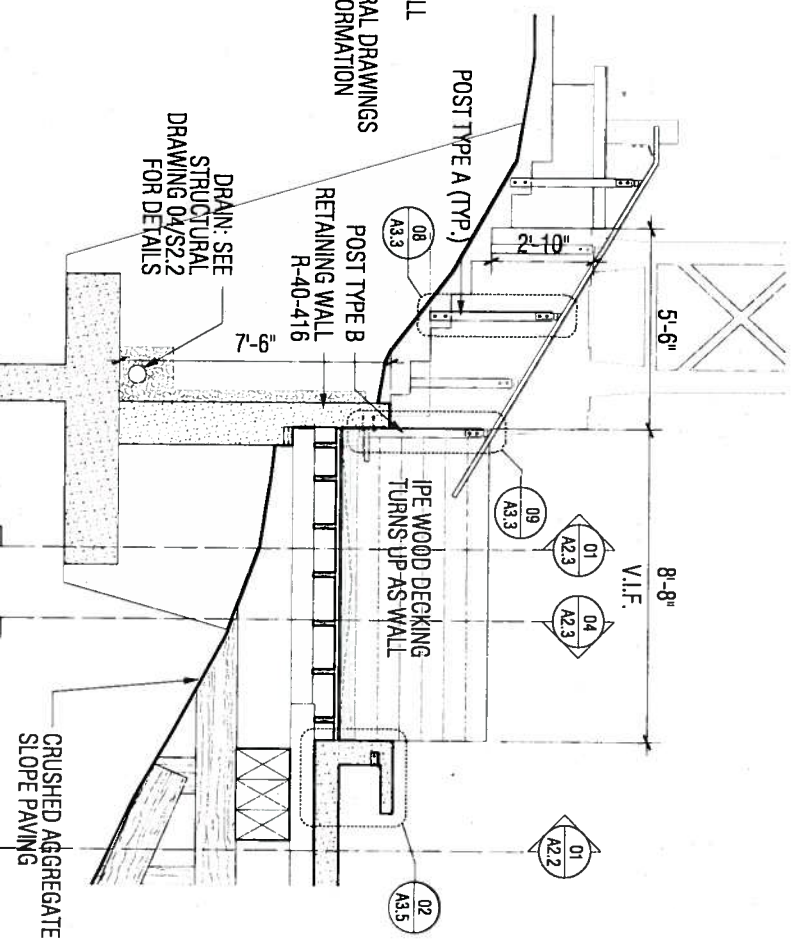
SEE A1.2
FOR TRESTLE LANDING PLAN



06 LONGITUDINAL SECTION @ PLANTER
SCALE: 3/16" = 1'-0"

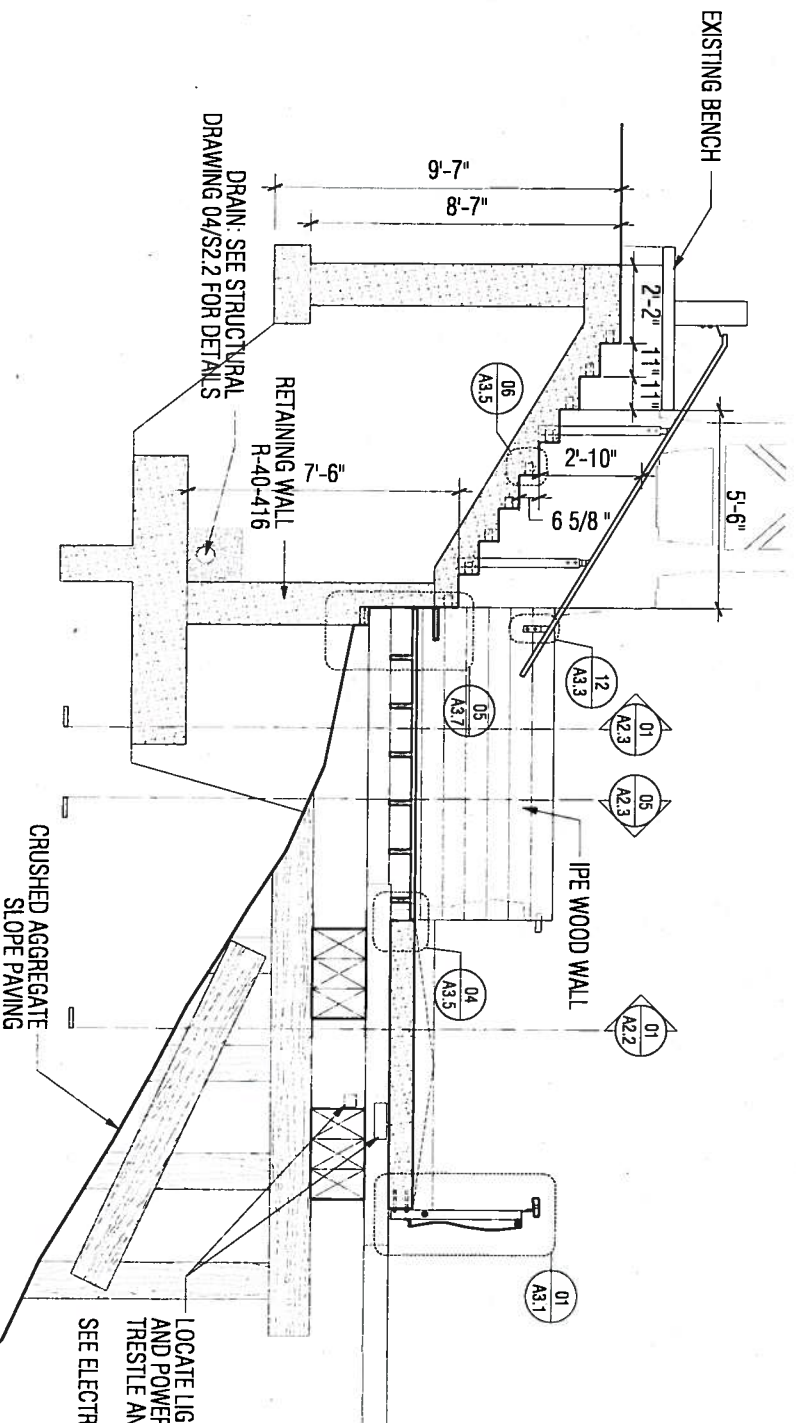


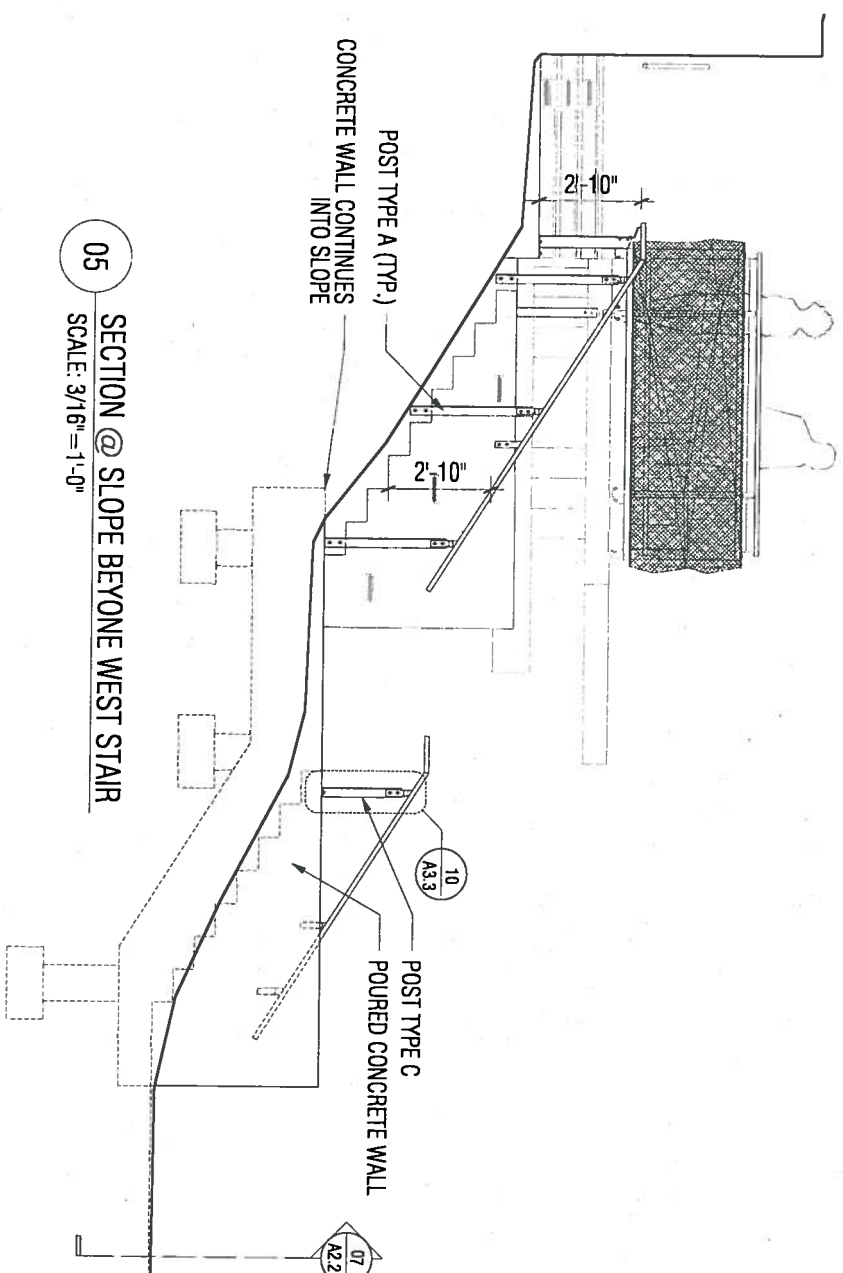
05 TRANSVERSE SECTION @ PLANTER
SCALE: 3/16" = 1'-0"



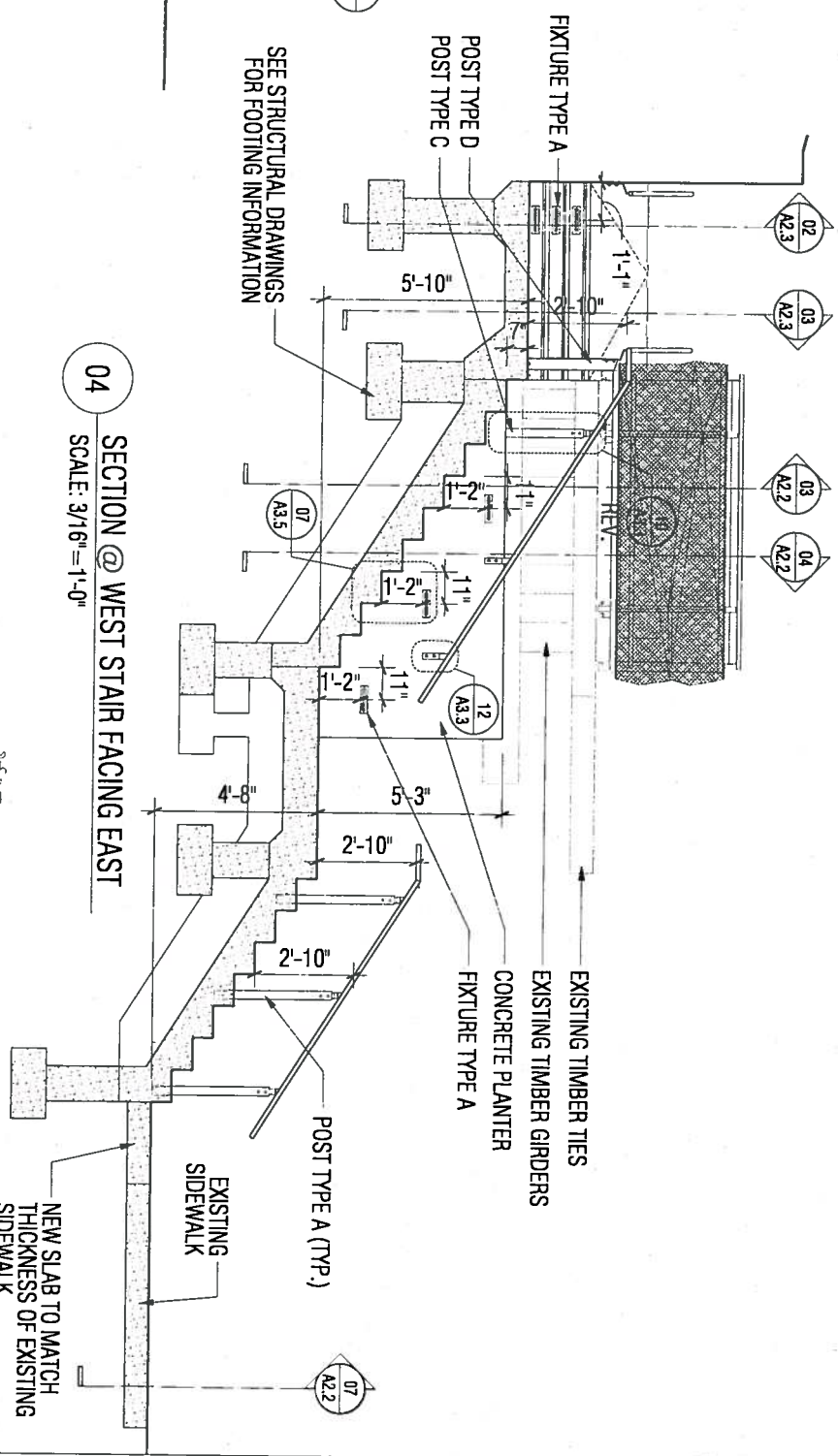
04 SECTION @ RETAINING WALL
SCALE: 3/16" = 1'-0"

03 SECTION @ SLOPE
SCALE: 3/16" = 1'-0"

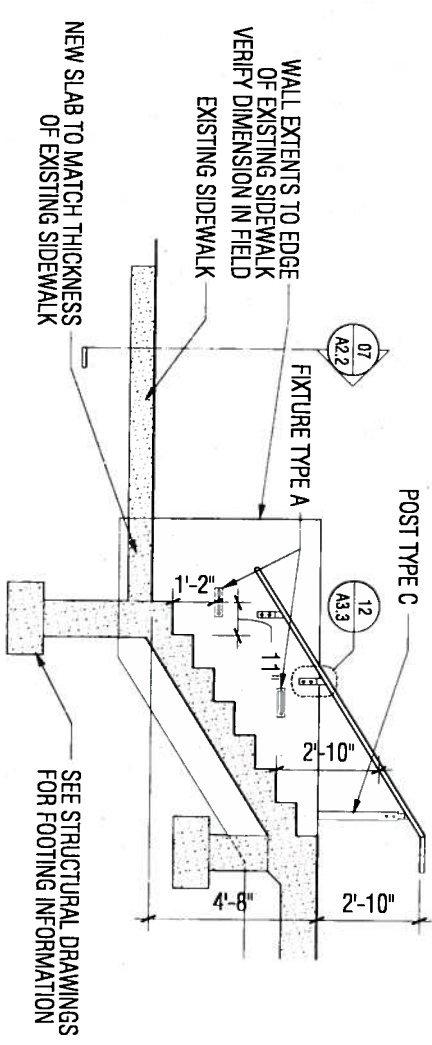




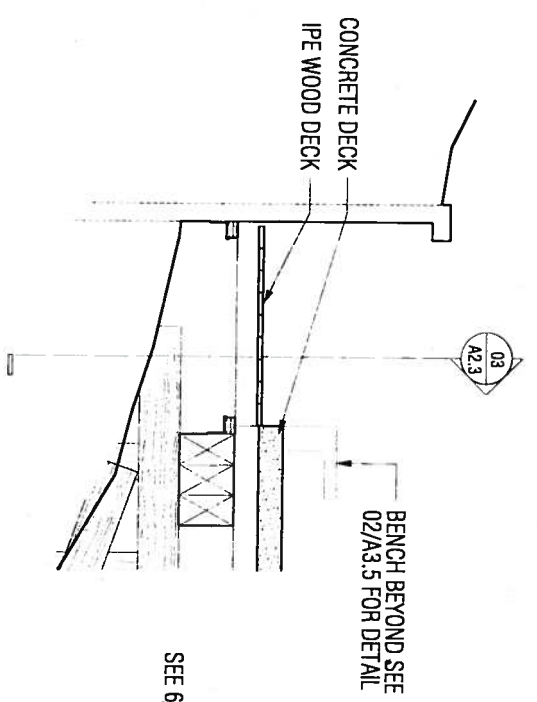
05 SECTION @ SLOPE BEYONE WEST STAIR
SCALE: 3/16" = 1'-0"



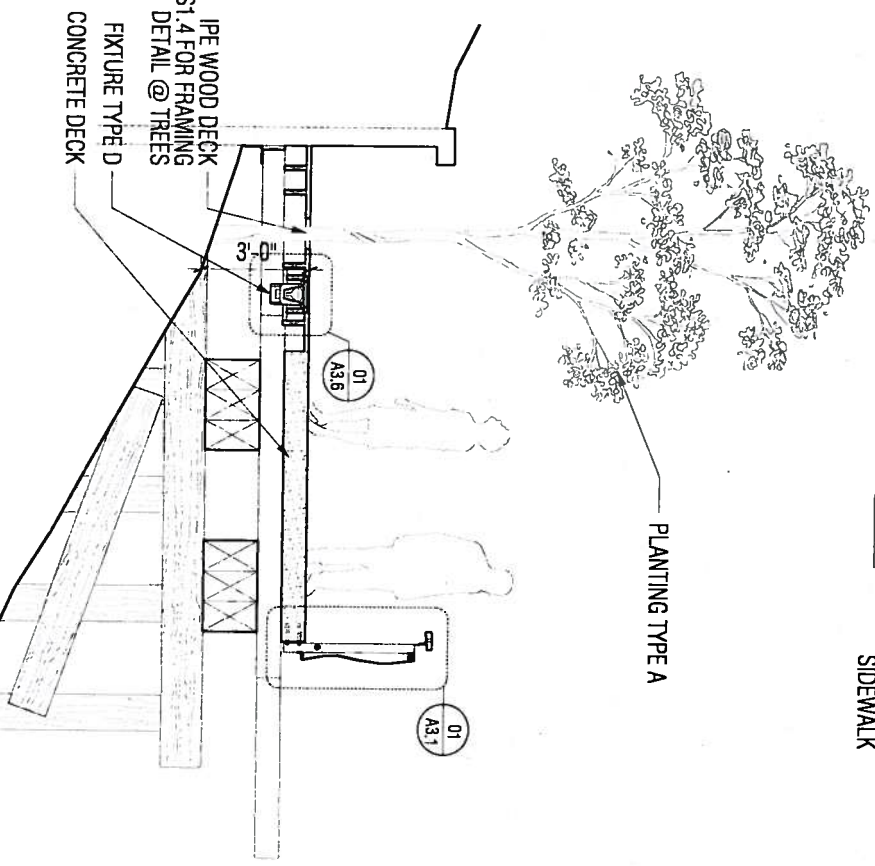
04 SECTION @ WEST STAIR FACING EAST
SCALE: 3/16" = 1'-0"



03 SECTION @ WEST STAIR FACING WEST
SCALE: 3/16" = 1'-0"



02 SECTION @ IPE WOOD RAMP
SCALE: 3/16" = 1'-0"



01 SECTION THROUGH TRESTLE LANDING
SCALE: 3/16" = 1'-0"

GENERAL NOTES
- SEE STRUCTURAL DRAWINGS FOR INFORMATION REGARDING FOUNDATIONS AND STAIR REINFORCEMENT, FOOTINGS, FASTENERS AND STRUCTURAL SIZING
- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR TO CONCRETE WALKING SURFACE

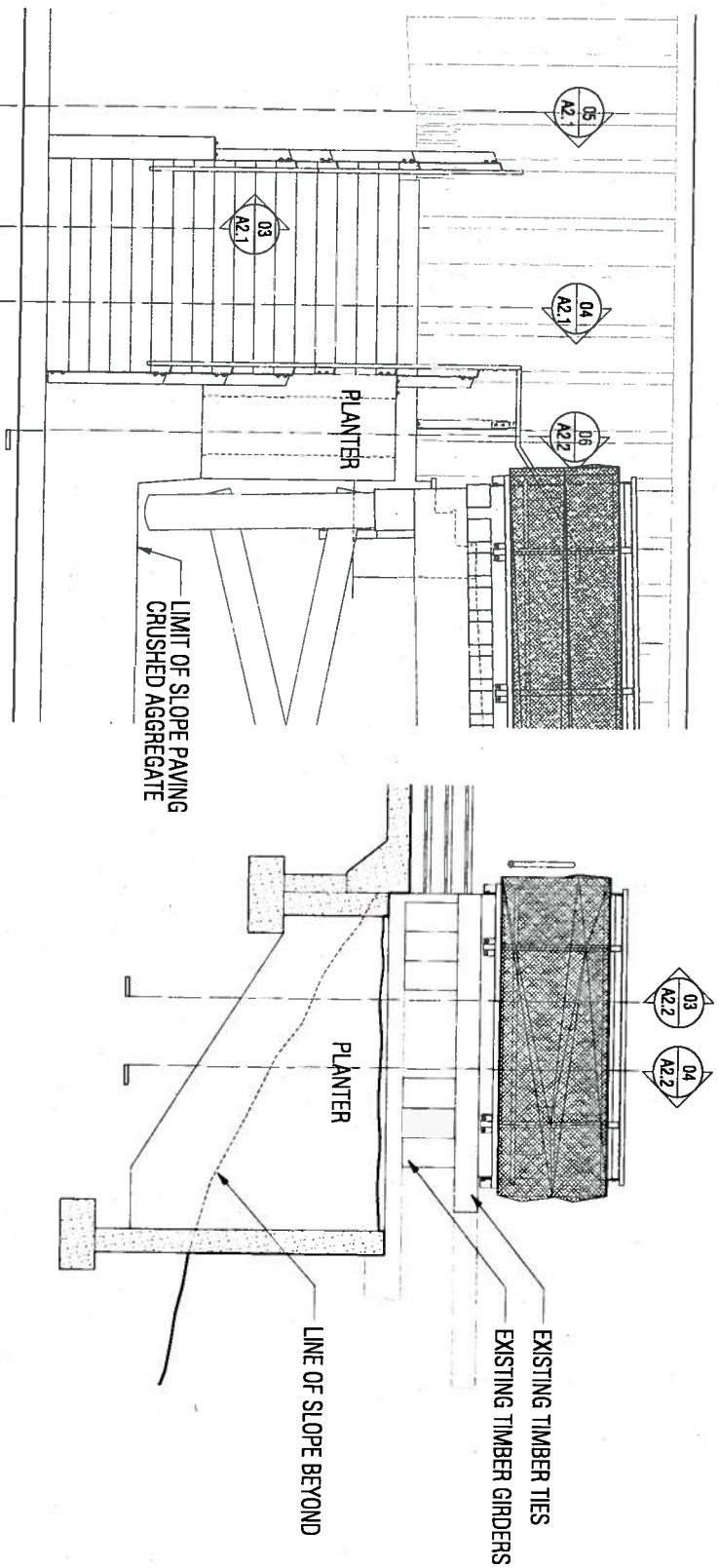
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Milwaukee, WI 53202
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fax 225 7451

NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
TRESTLE SECTIONS

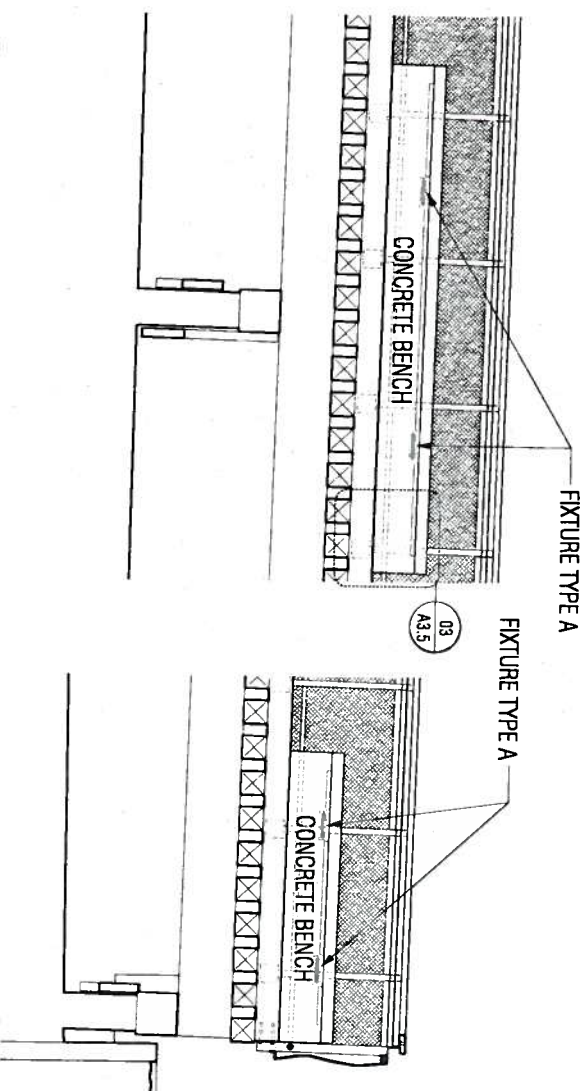
DRAWN BY
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PROJECT NO.
DATE
SCALE

B.J.T.
J.T.D.
0709
06.15.2010
3/16" = 1'-0"



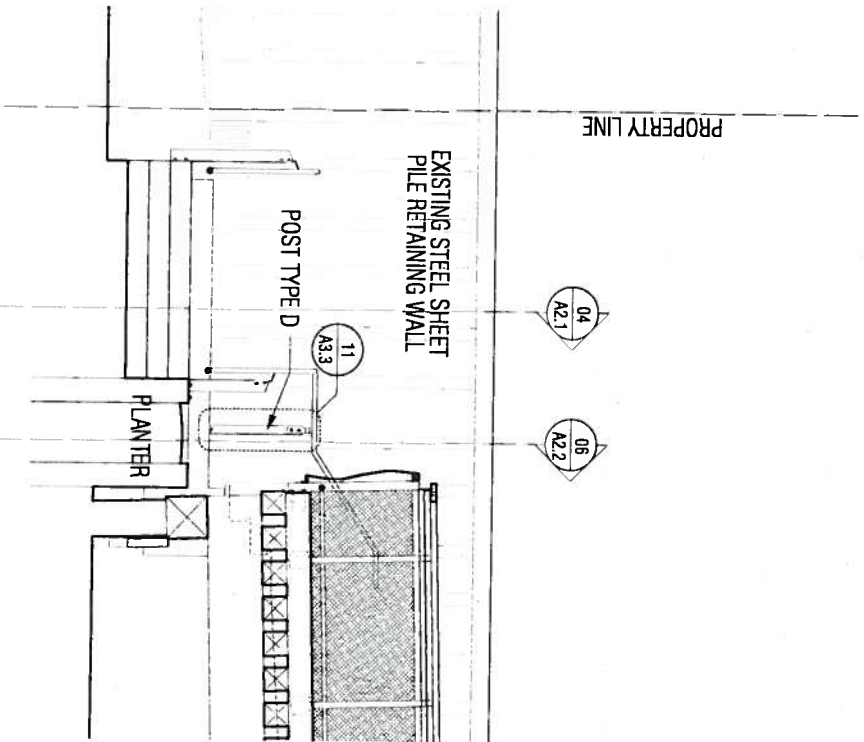
07 ELEVATION @ WEST STAIR
SCALE: 3/16" = 1'-0"

06 SECTION @ PLANTER
SCALE: 3/16" = 1'-0"

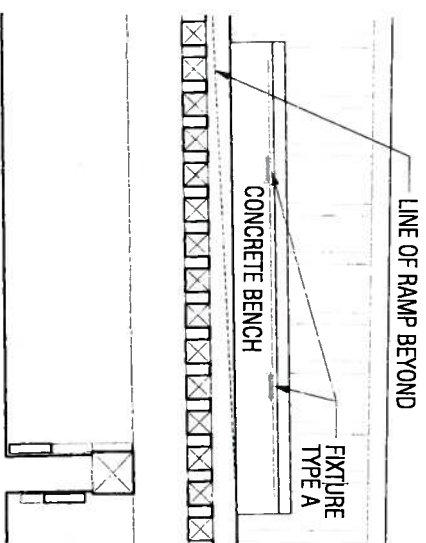


05 ELEVATION @ TRESTLE BENCH
SCALE: 3/16" = 1'-0"

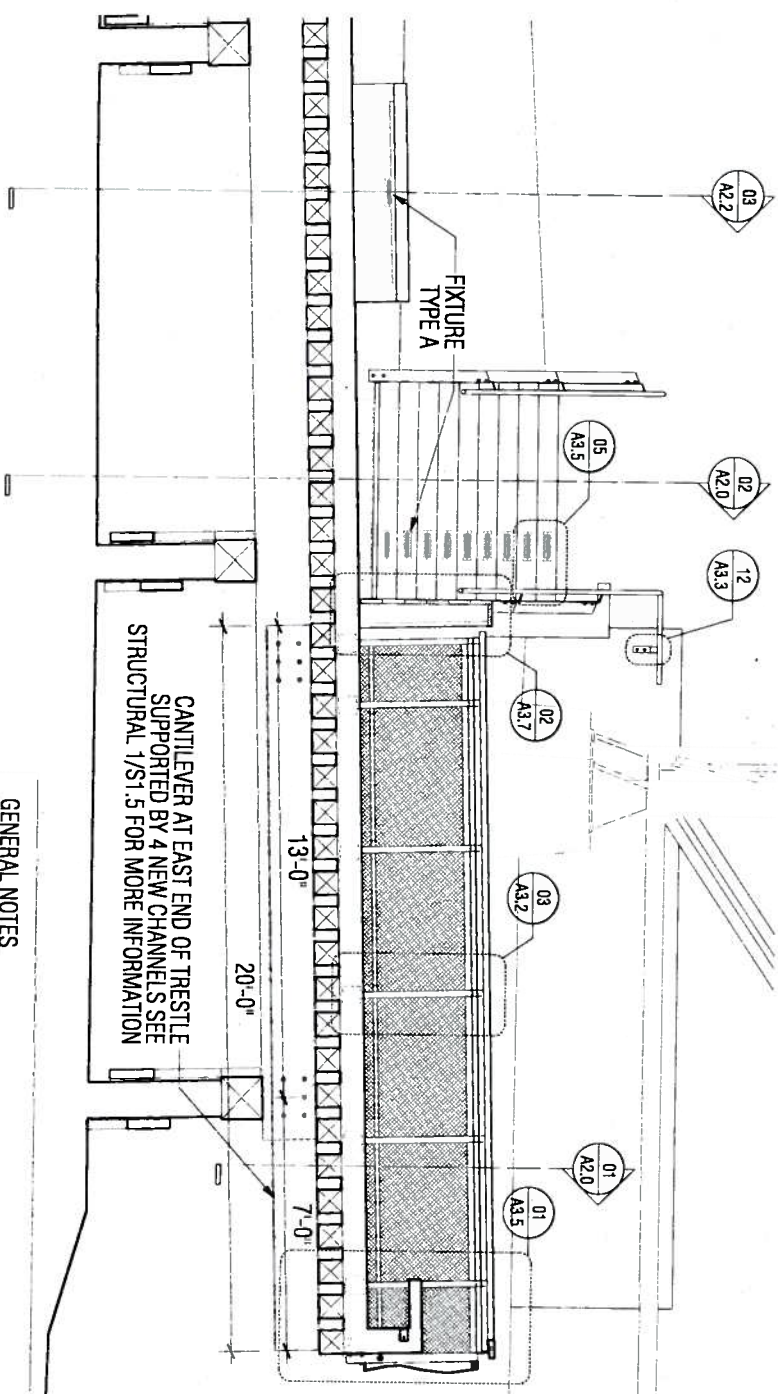
04 SECTION @ TRESTLE WEST END
SCALE: 3/16" = 1'-0"



03 SECTION @ CONCRETE PLANTER
SCALE: 3/16" = 1'-0"



02 ELEVATION @ TRESTLE BENCH
SCALE: 3/16" = 1'-0"



01 SECTION @ TRESTLE EAST END
SCALE: 3/16" = 1'-0"

GENERAL NOTES

- SEE STRUCTURAL DRAWINGS FOR INFORMATION REGARDING FOUNDATIONS AND STAIR REINFORCEMENT, FOOTINGS, FASTENERS AND STRUCTURAL SIZING
- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR TO CONCRETE WALKING SURFACE
- SLOPE OF CONCRETE AND WOOD DECK TO FOLLOW SLOPE OF EXISTING TRESTLE

CONSTRUCTION DOCUMENTS TRESTLE SECTIONS

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PROJECT NO.
DATE
SCALE

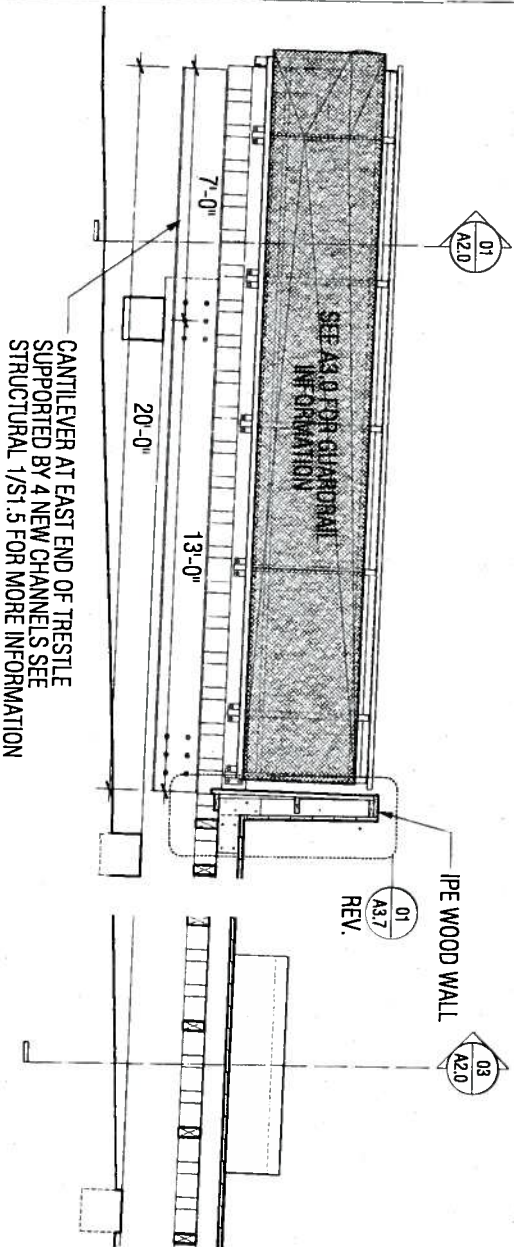
BJT
JTD
0709
06.15.20.0
3/16" = 1'-0"

REVISIONS

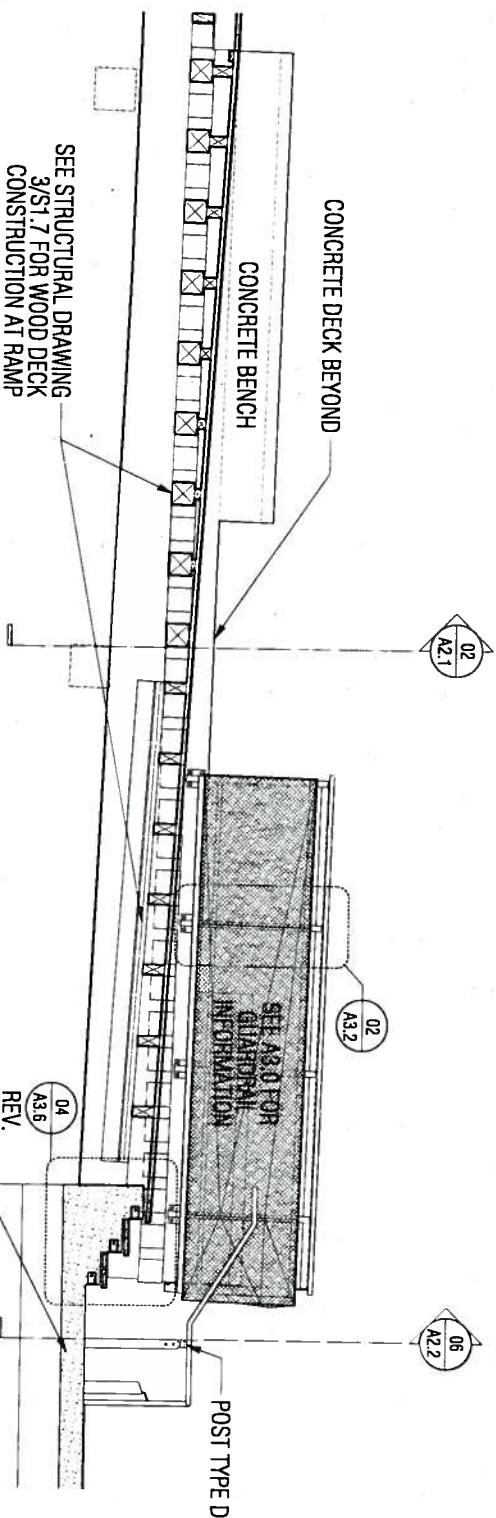
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STEEL CHANNEL

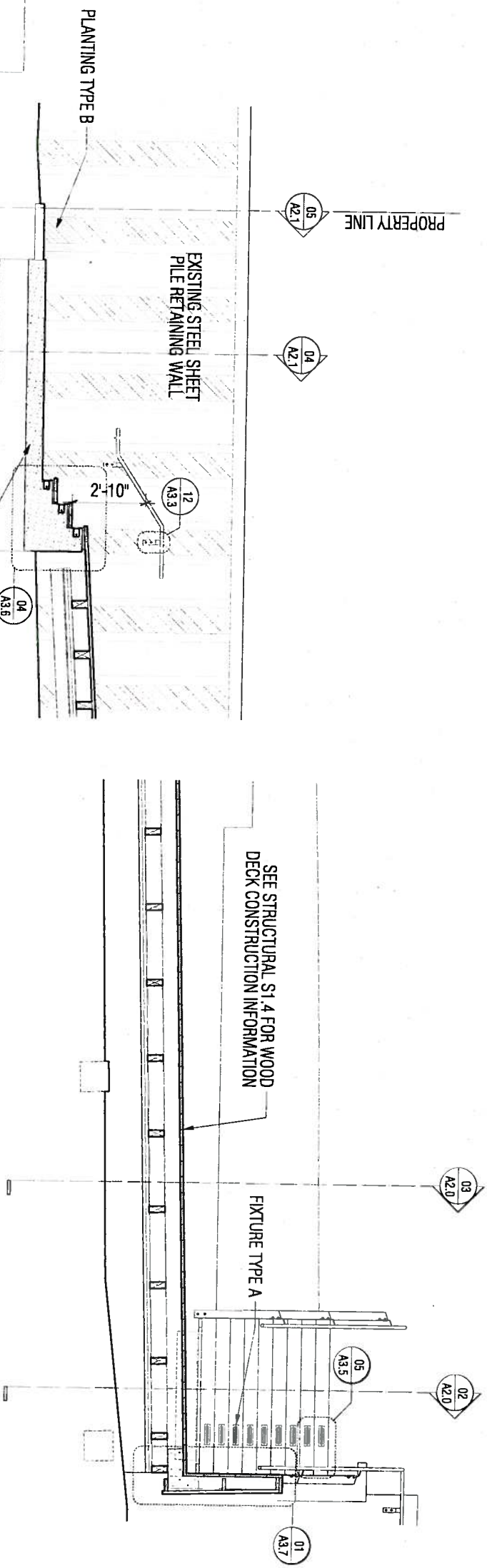


05 SECTION THROUGH WOOD DECK @ EAST END
SCALE: 3/16"=1'-0"



04 SECTION THROUGH WOOD DECK
SCALE: 3/16"=1'-0"

03 SECTION THROUGH WOOD @ RAMP
SCALE: 3/16"=1'-0"



GENERAL NOTES

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- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR TO CONCRETE WALKING SURFACE
- SLOPE OF CONCRETE AND WOOD DECK TO FOLLOW SLOPE OF EXISTING TRESTLE

02 SECTION @ WEST STAIR
SCALE: 3/16"=1'-0"

01 SECTION THROUGH WOOD DECK
SCALE: 3/16"=1'-0"

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CONSTRUCTION DOCUMENTS
TRESTLE SECTIONS

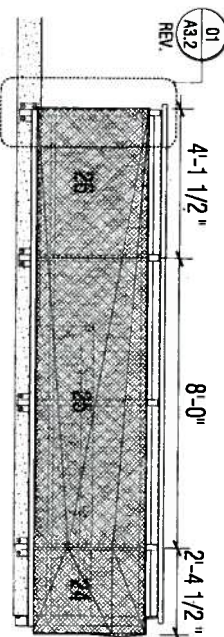
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CHECKED BY: JTD
PROJECT NO.: 0709
DATE: 06.15.2010
SCALE: 3/16"=1'-0"

REVISIONS	
NO.	DATE DESCRIPTION

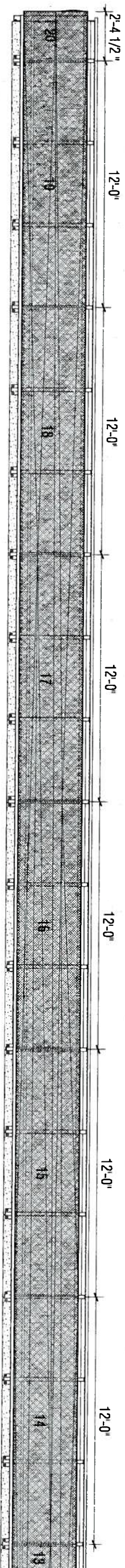
CONSTRUCTION DOCUMENTS
GUARDRAIL DETAILS

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CHECKED BY	JTD
PROJECT NO.	0709
DATE	06 15 2010
SCALE	VARIOUS

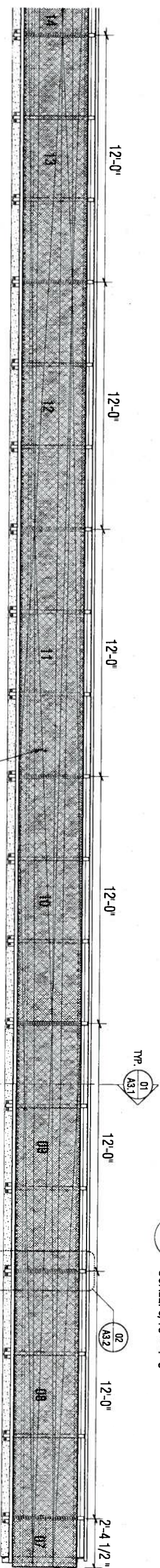
A3.0



04 GUARDRAIL NORTH ELEVATION
SCALE: 3/16" = 1'-0"

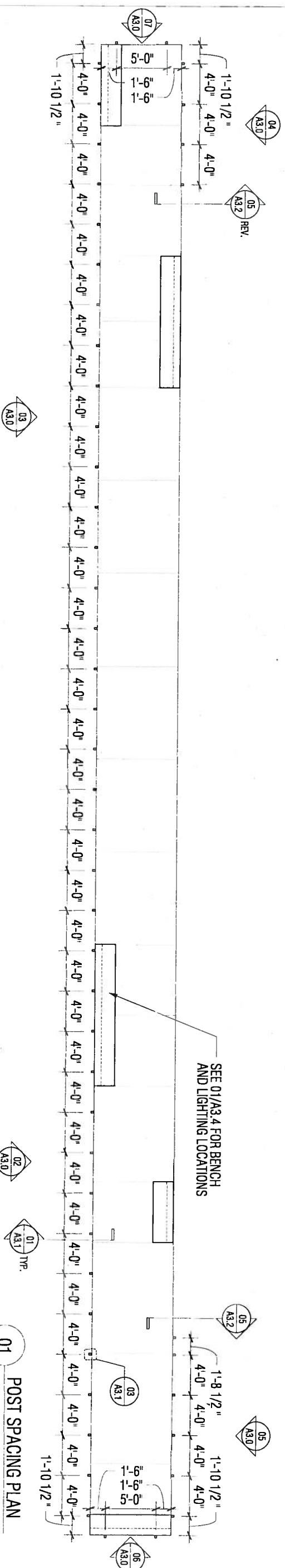


03 GUARDRAIL SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



02 GUARDRAIL SOUTH ELEVATION
SCALE: 3/16" = 1'-0"

NOTE CREASES AND CONTINUITY OF
CREASE FROM PANEL TO PANEL, TYPICAL

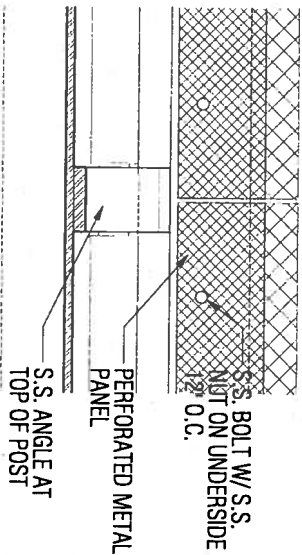


SEE 01/A3.4 FOR BENCH
AND LIGHTING LOCATIONS

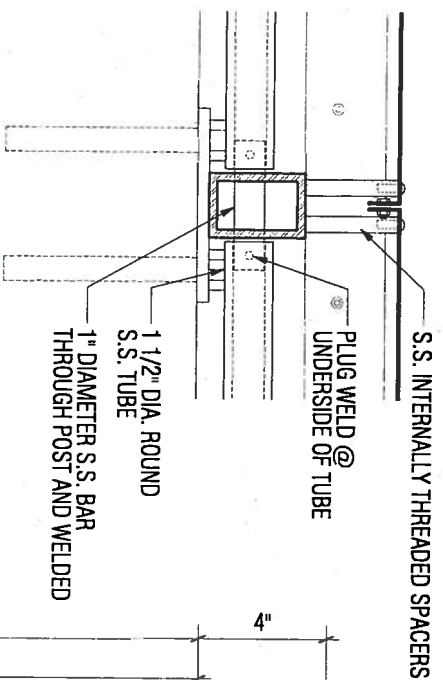
01 POST SPACING PLAN
SCALE: 3/32" = 1'-0"

GENERAL NOTES

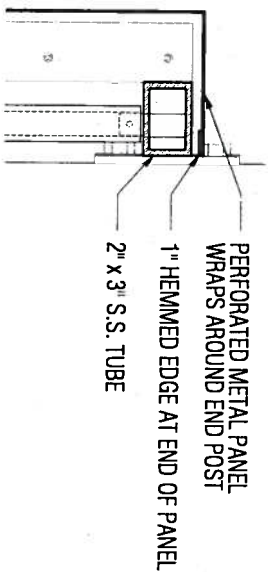
- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR TO CONCRETE WALKING SURFACE
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FASTENERS AND STRUCTURAL SIZING



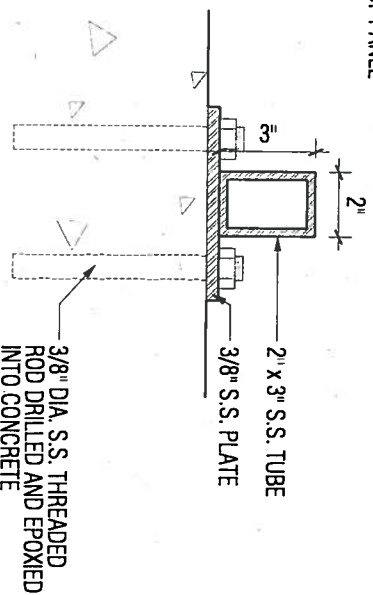
07 PLAN DETAIL @ POST
SCALE: 2"=1'-0"



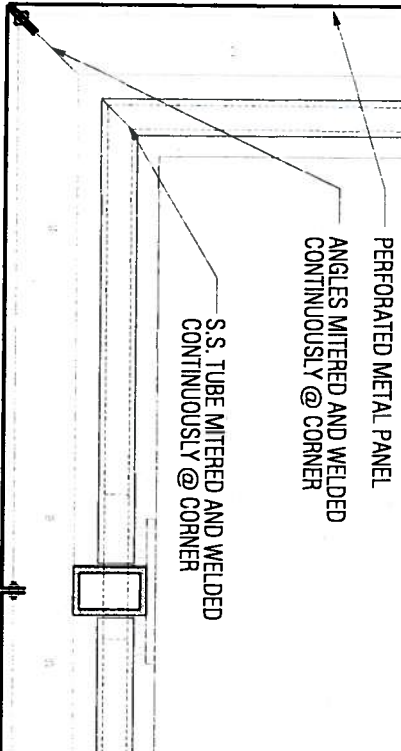
04 PLAN DETAIL @ POST
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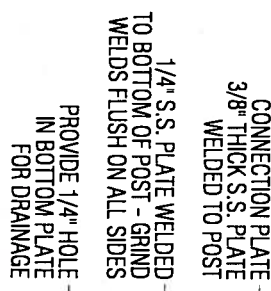
06 PLAN @ END POST
SCALE: 1 1/2"=1'-0"



03 PLAN DETAIL @ POST
SCALE: 2"=1'-0"

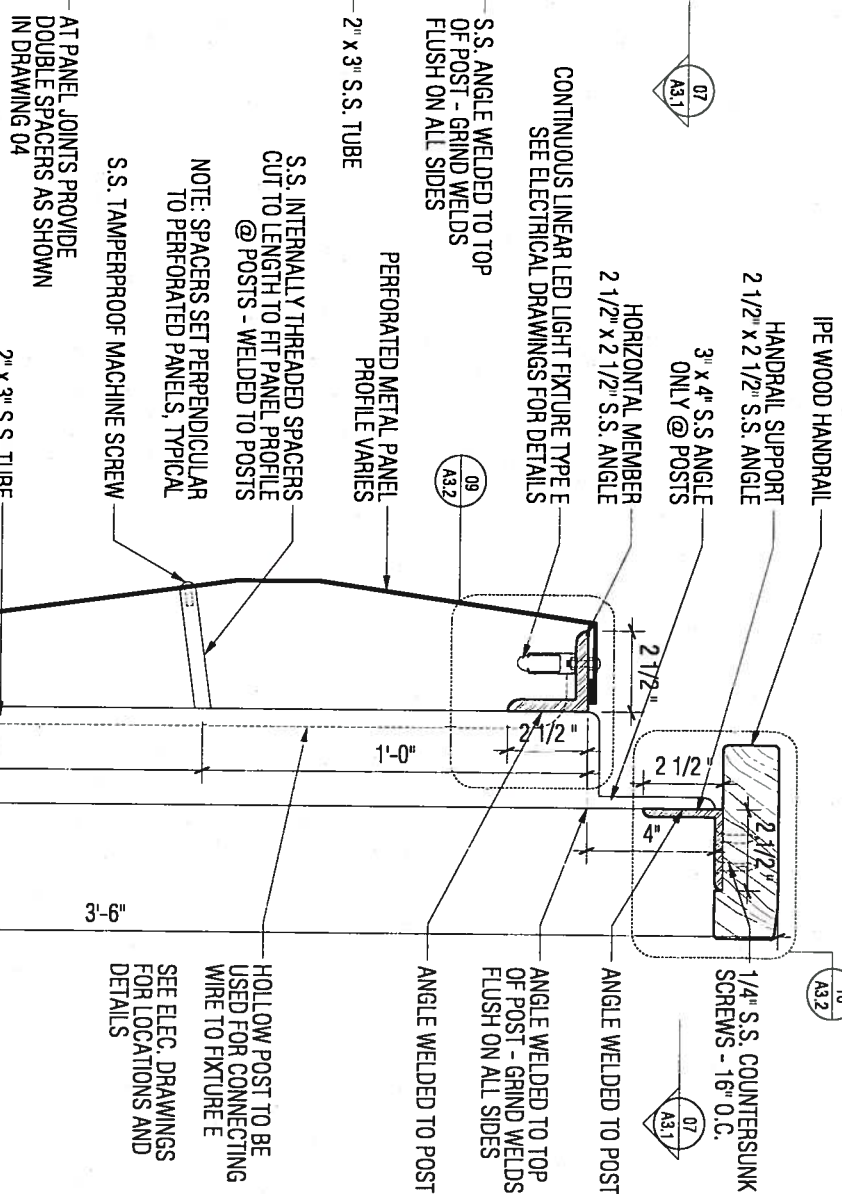


05 PLAN @ CORNER (TYP.)
SCALE: 1 1/2"=1'-0"



02 ELEVATION OF POST
SCALE: 2"=1'-0"

GENERAL NOTES
- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR TO CONCRETE WALKING SURFACE
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FASTENERS AND STRUCTURAL SIZING



01 SECTION DETAIL @ POST
SCALE: 2"=1'-0"

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REVISIONS
NO. DATE DESCRIPTION

CONSTRUCTION DOCUMENTS
GUARDRAIL DETAILS

DRAWN BY
CHECKED BY
PROJECT NO.
DATE
SCALE

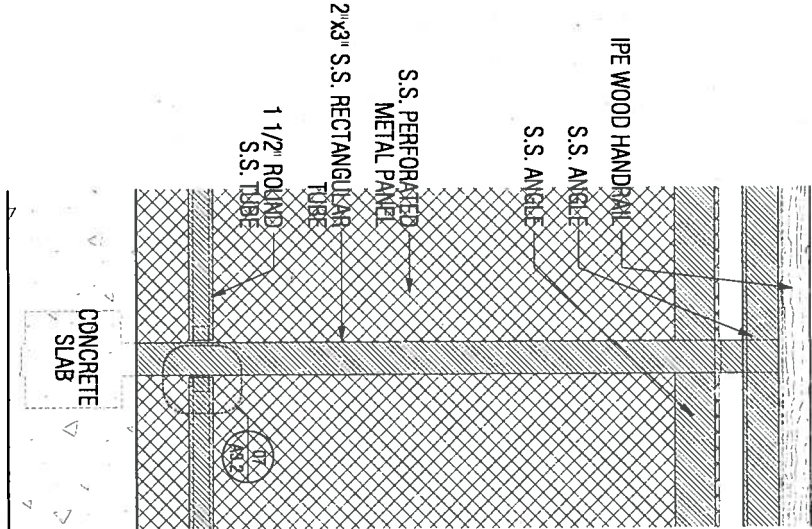
A3.1

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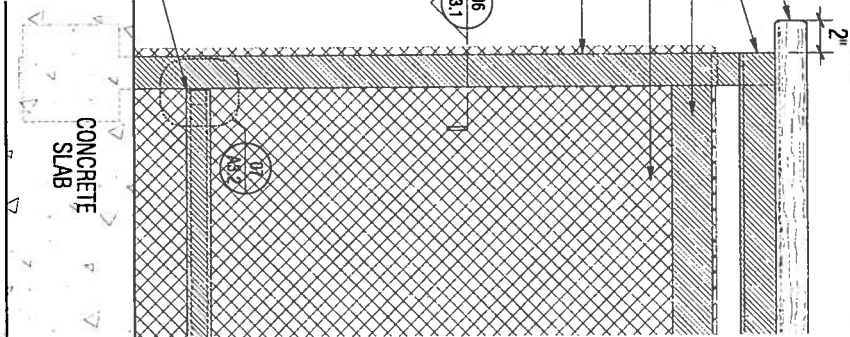
REVISIONS	
NO.	DATE DESCRIPTION

CONSTRUCTION DOCUMENTS
GUARDRAIL DETAILS

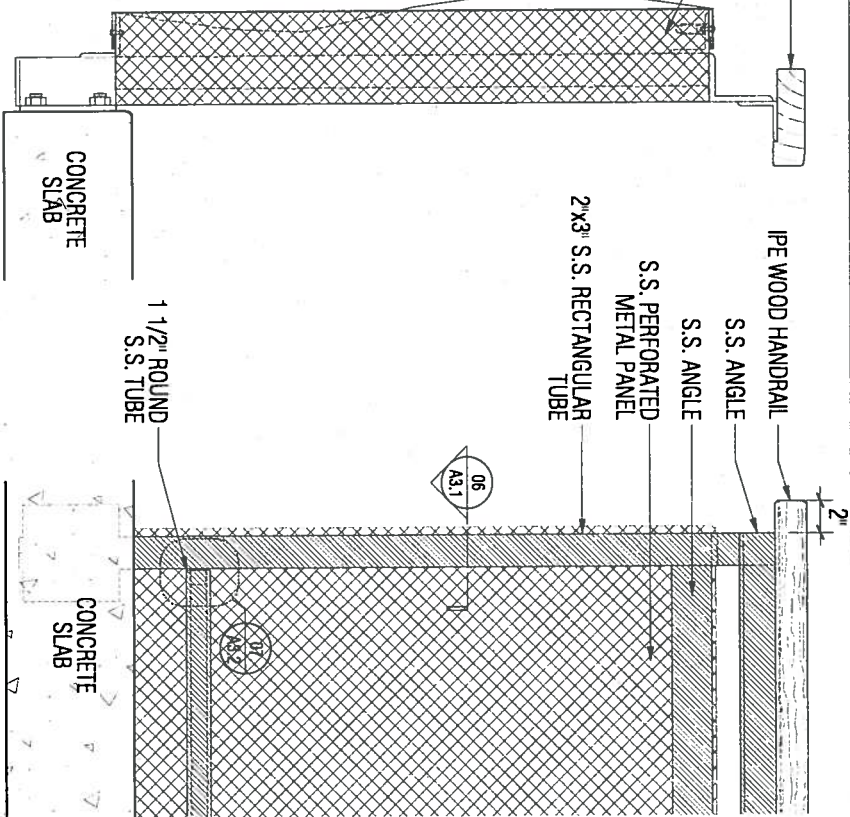
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CHECKED BY	JTD
PROJECT NO.	0709
DATE	06.15.2010
SCALE	VARIOUS



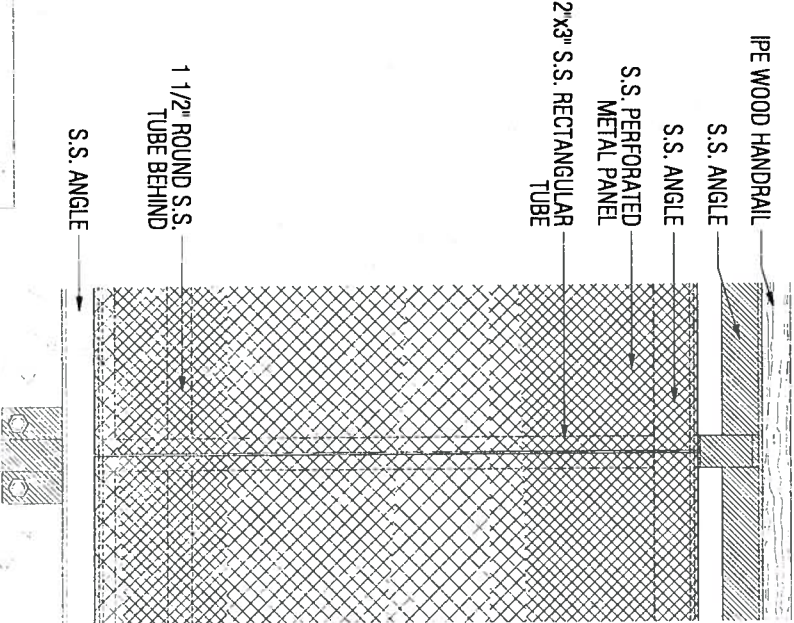
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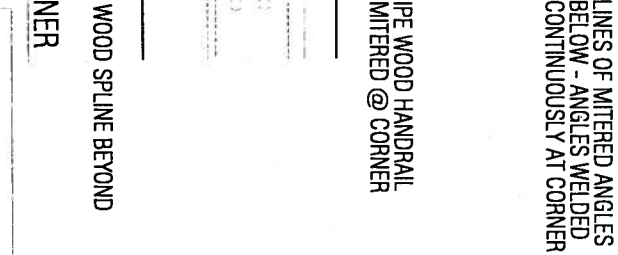
04 INT. ELEVATION @ END
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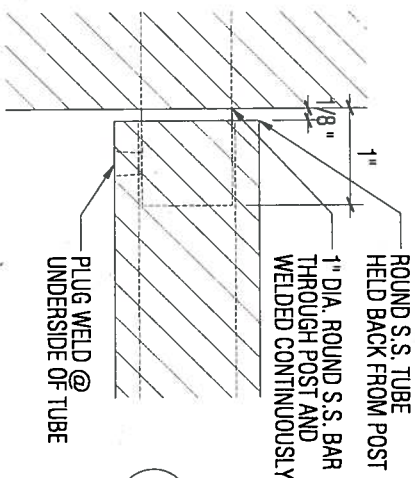
05 SIDE ELEVATION @ END POST
SCALE: 1"=1'-0"



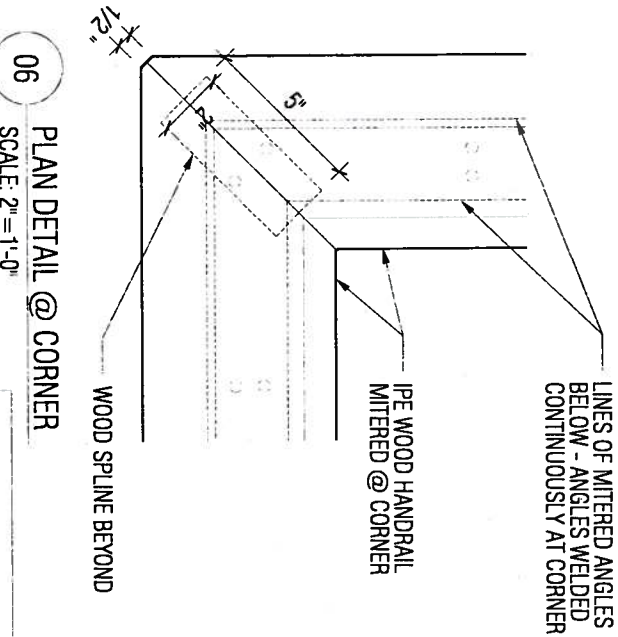
02 EXT. ELEVATION @ POST
SCALE: 1"=1'-0"



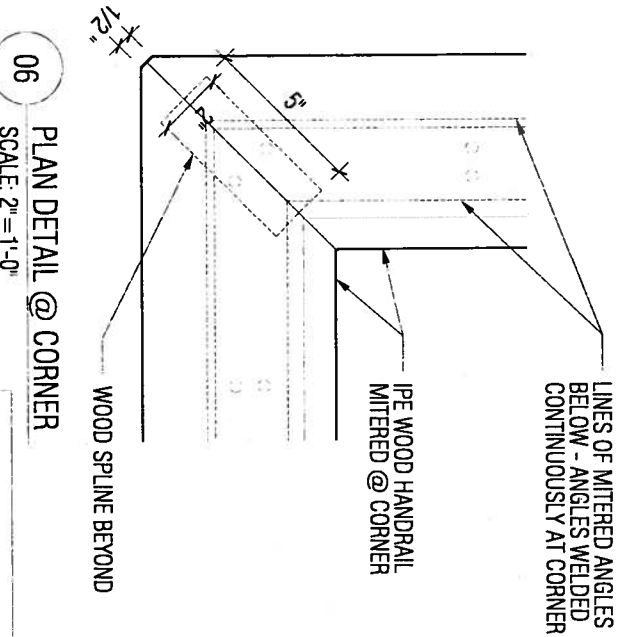
07 FOOTREST DETAIL
SCALE: 1"=1'-0"



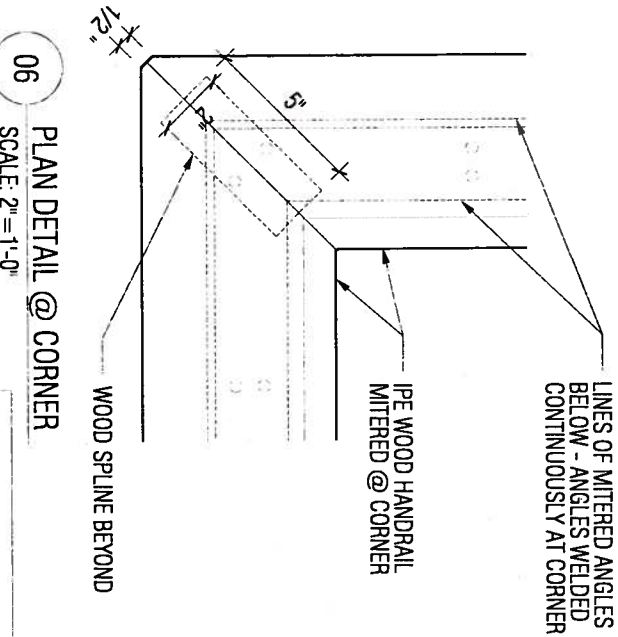
06 PLAN DETAIL @ CORNER
SCALE: 2"=1'-0"



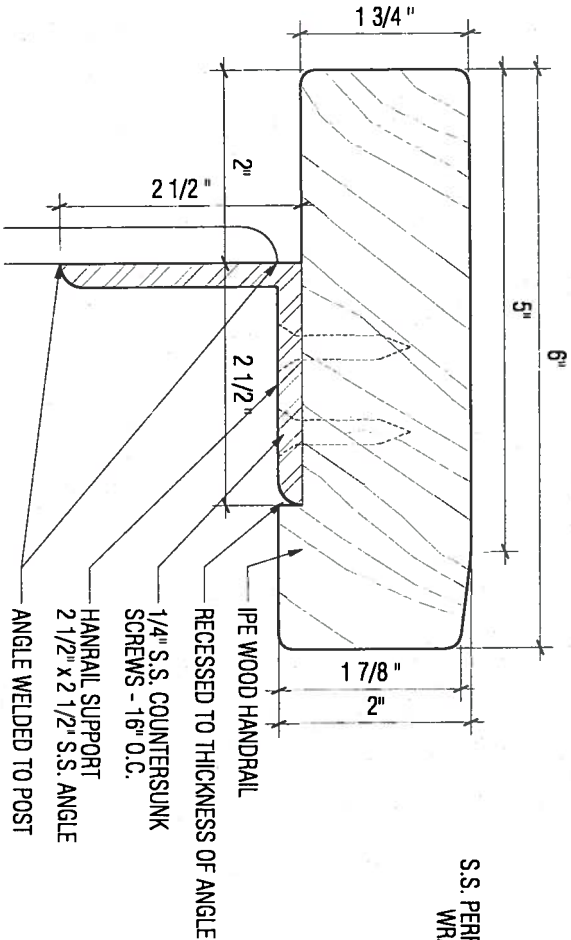
08 SECTION DETAIL @ ANGLE
SCALE: 1/2"=1"



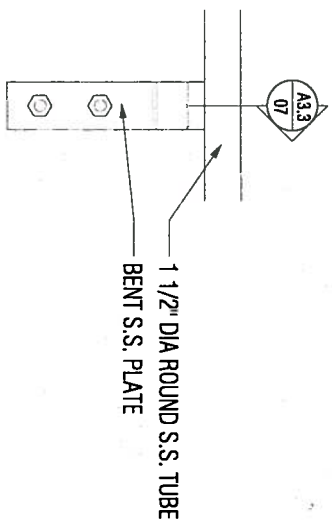
09 SECTION DETAIL @ ANGLE
SCALE: 1/2"=1"



10 SECTION DETAIL @ WOOD HANDRAIL
SCALE: 1/2"=1"

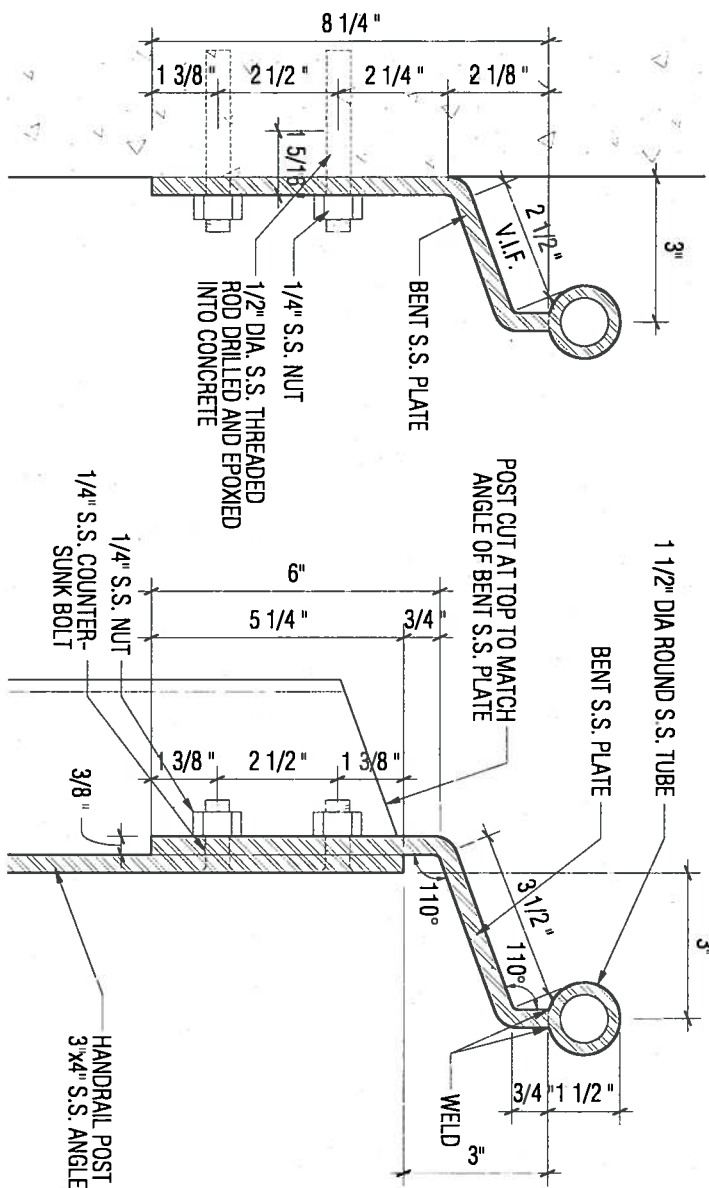
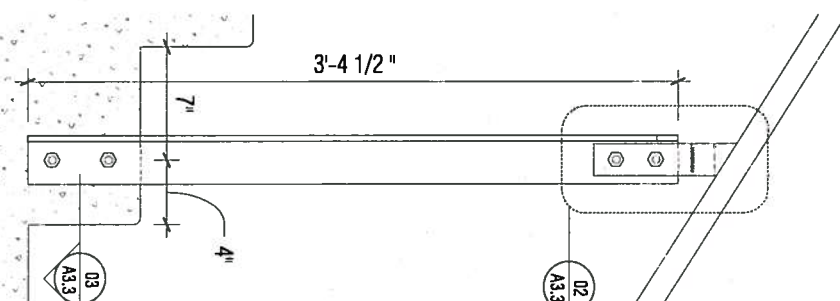
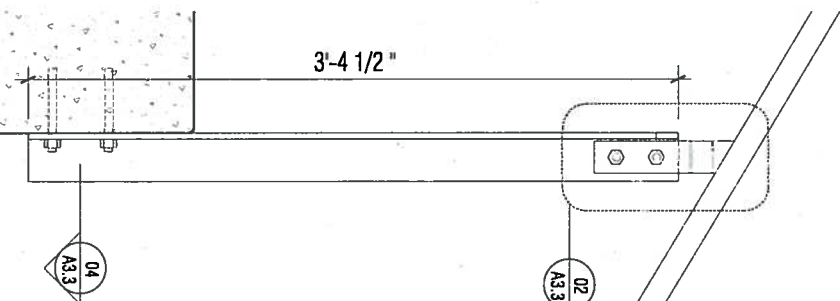
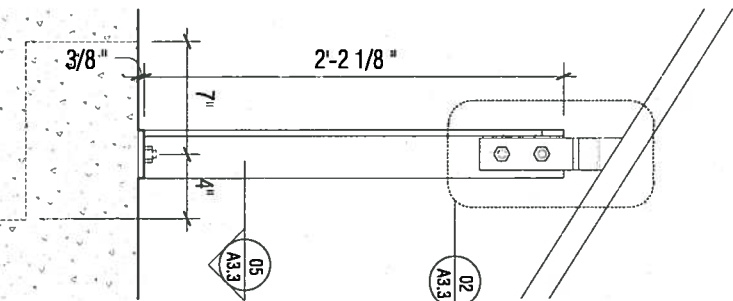
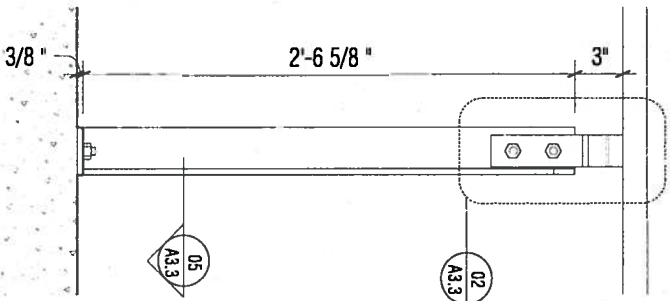


GENERAL NOTES
- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR
TO CONCRETE WALKING SURFACE
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
REGARDING FASTENERS AND STRUCTURAL SIZING



GENERAL NOTES
- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR TO CONCRETE WALKING SURFACE
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FASTENERS AND STRUCTURAL SIZING

12 ELE. @ BRACKET
SCALE: 1"=1'-0"



07 CONNECTION @ WALL
SCALE: 3"=1'-0"

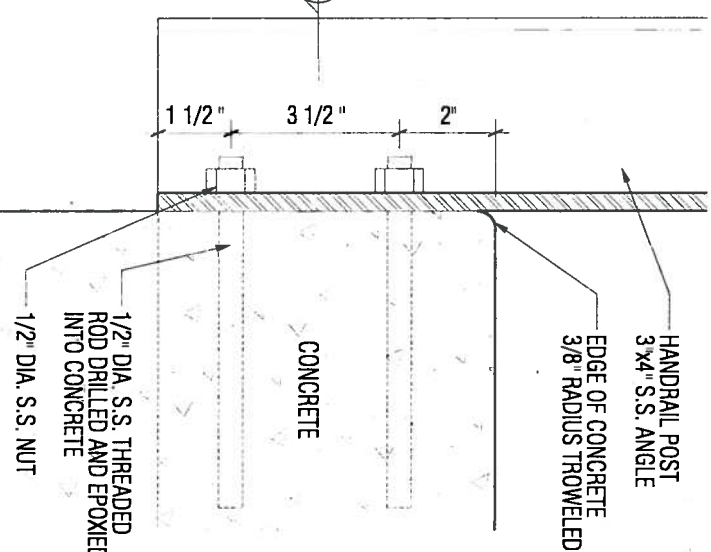
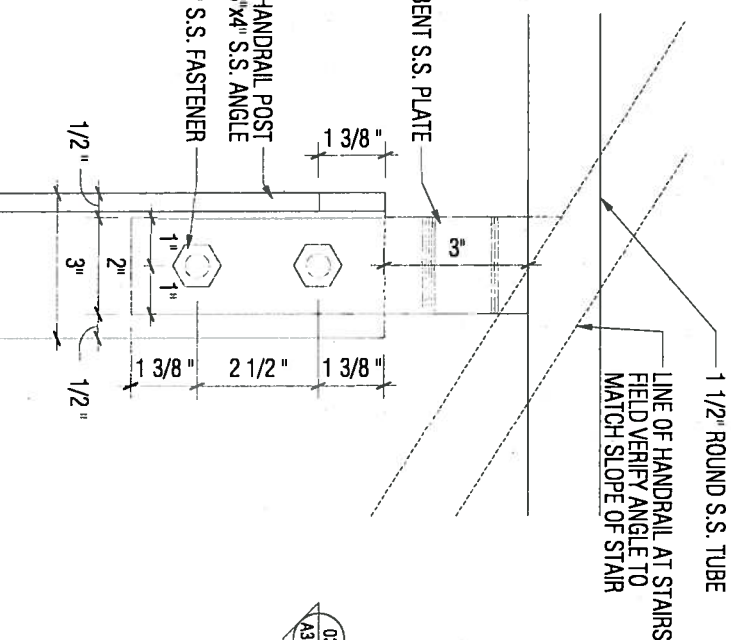
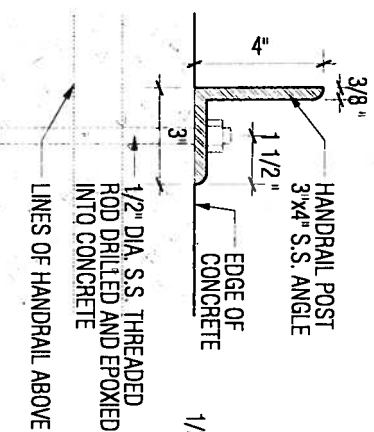
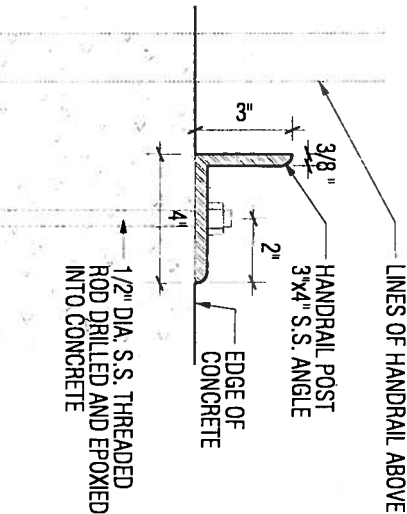
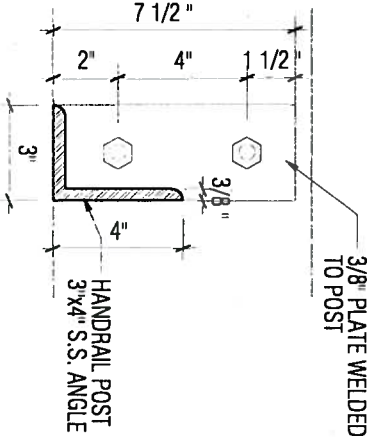
06 HANDRAIL SECTION @ TOP (TYP.)
SCALE: 3"=1'-0"

11 POST TYPE D
SCALE: 1"=1'-0"

10 POST TYPE C
SCALE: 1"=1'-0"

09 POST TYPE B
SCALE: 1"=1'-0"

08 POST TYPE A
SCALE: 1"=1'-0"



05 PLAN @ POST C / D
SCALE: 2"=1'-0"

04 PLAN @ POST B
SCALE: 2"=1'-0"

03 PLAN @ POST A (TYP.)
SCALE: 2"=1'-0"

02 HANDRAIL ELEVATION @ TOP
SCALE: 3"=1'-0"

01 HANDRAIL SECTION @ BOTTOM (TYP.)
SCALE: 3"=1'-0"

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CONSTRUCTION DOCUMENTS
HANDRAIL DETAILS

DRAWN BY
CHECKED BY
PROJECT NO.
DATE
SCALE

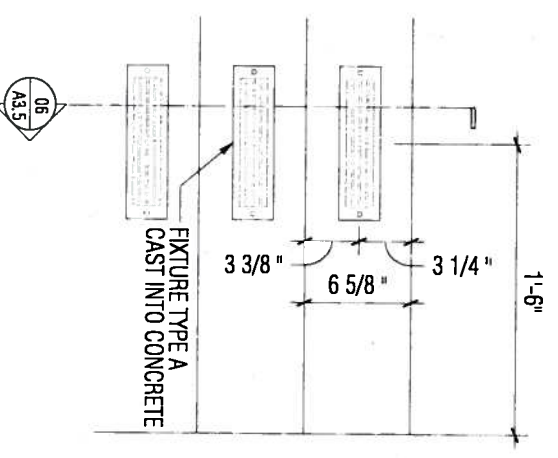
A3.3

TRESTLE CONNECTION

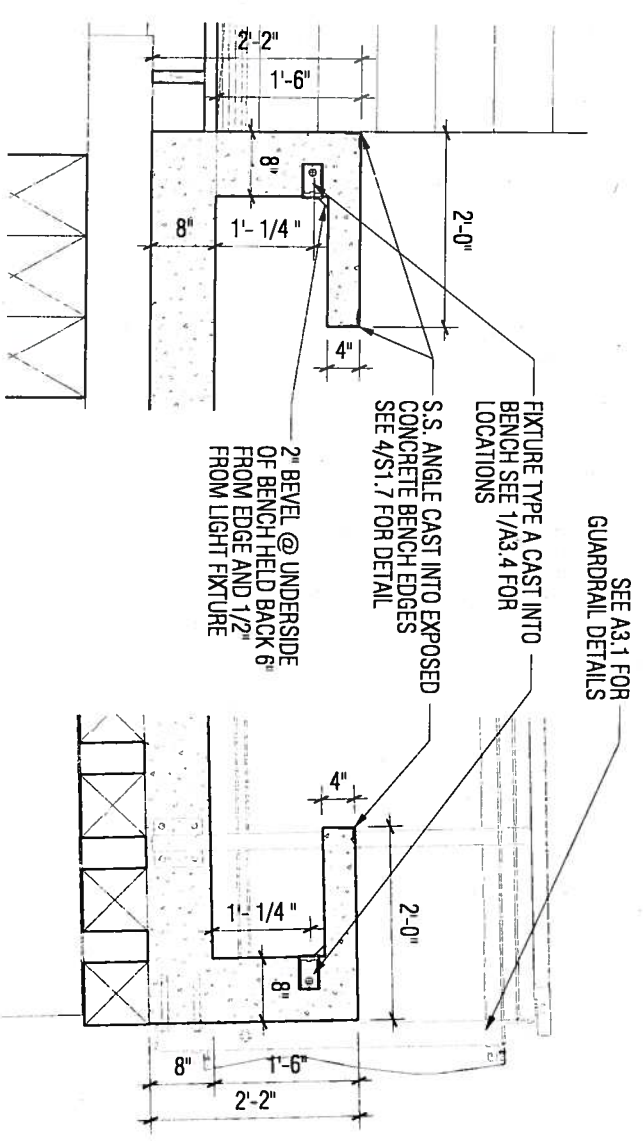
REVISIONS	
NO.	DATE DESCRIPTION

CONSTRUCTION DOCUMENTS
CONCRETE DETAILS

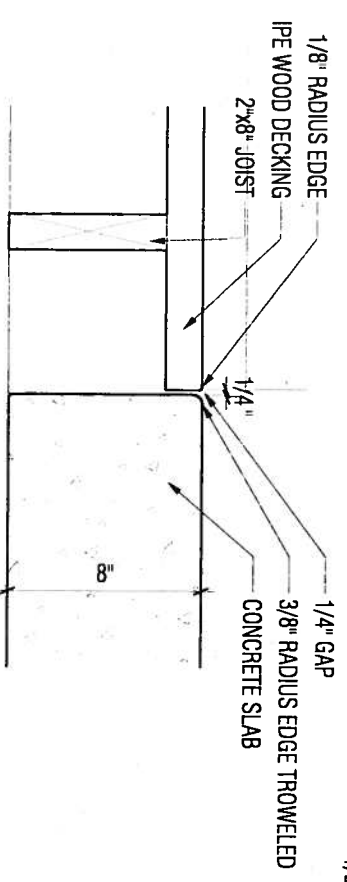
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CHECKED BY	JTD
PROJECT NO.	0709
DATE	06.15.2010
SCALE	VARIOUS



05 STAIR ELEVATION @ EAST STAIRWAY (TYP.)
SCALE: 1"=1'-0"



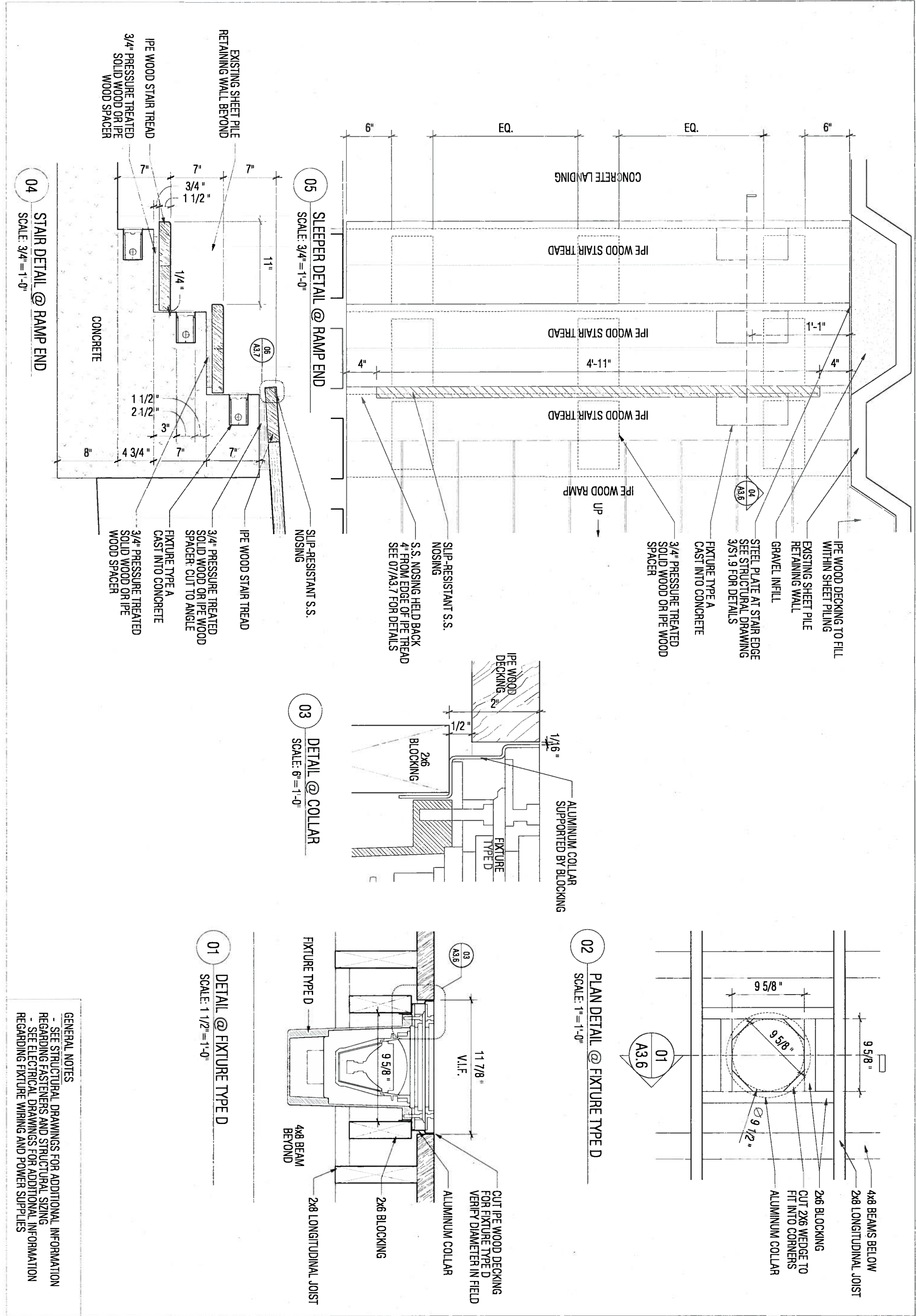
01 BENCH DETAIL @ GUARDRAIL
SCALE: 1/2" = 1'-0"



04
DETAIL @ CONCRETE / WOOD JOINT
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES

- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING REINFORCEMENT LOCATIONS
- SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FIXTURE WIRING AND POWER SUPPLIES



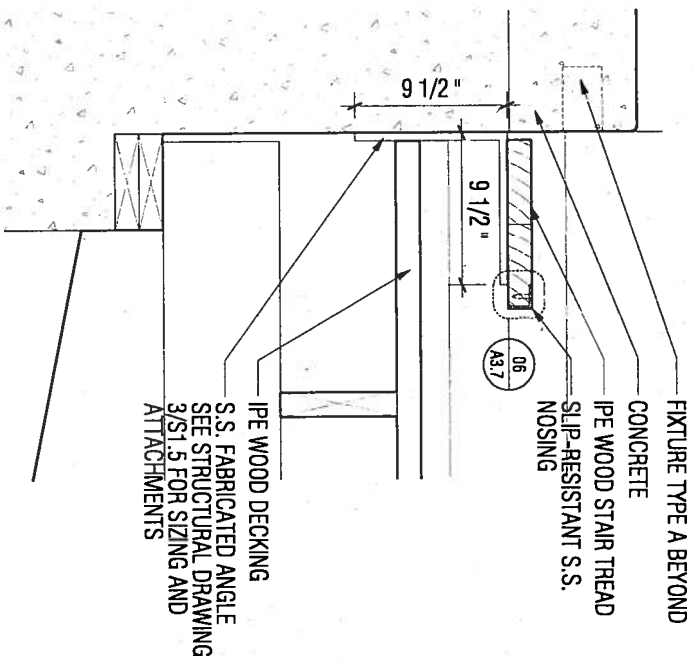
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fax 225 7451

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NO.	DATE DESCRIPTION

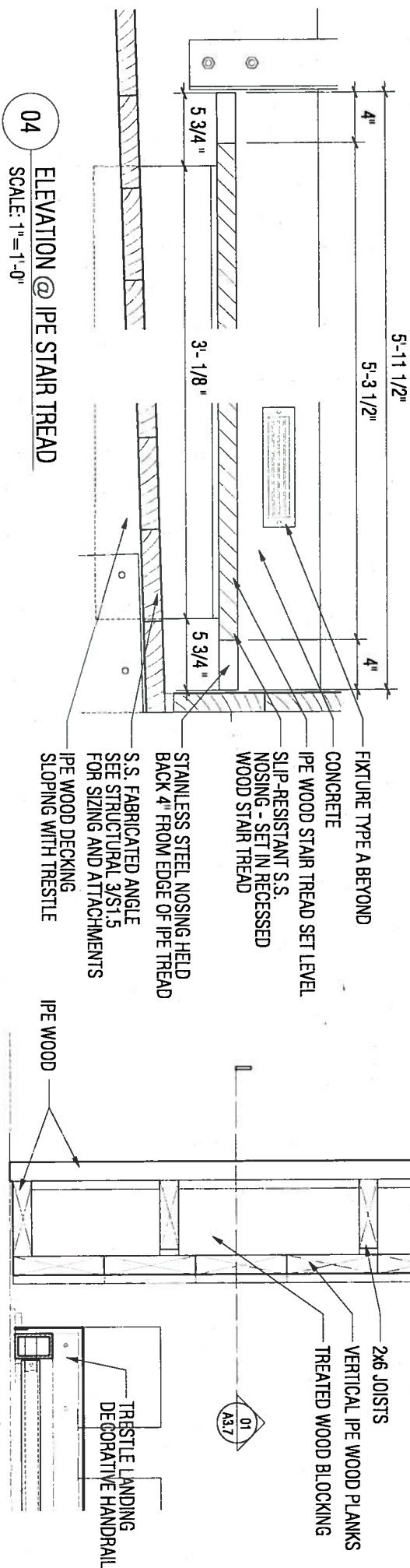
CONSTRUCTION DOCUMENTS
WOOD DETAILS

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	06.15.2010
SCALE	VARIOUS

A3.6

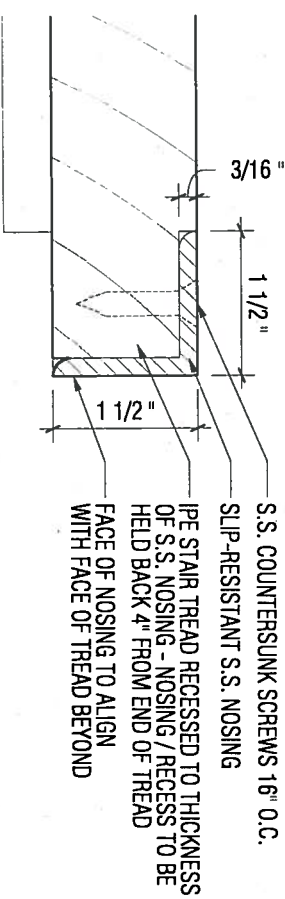


04 ELEVATION @ IPE STAIR TREAD
SCALE: 1"=1'-0"

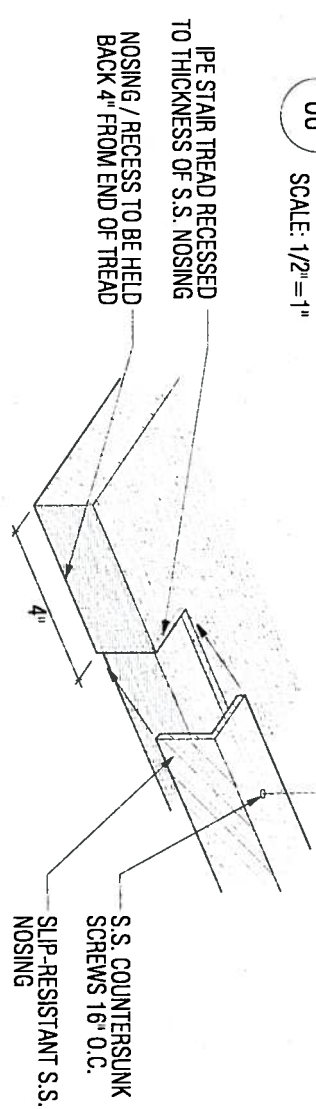


03 PLAN @ WOOD WALL
SCALE: 1"=1'-0"

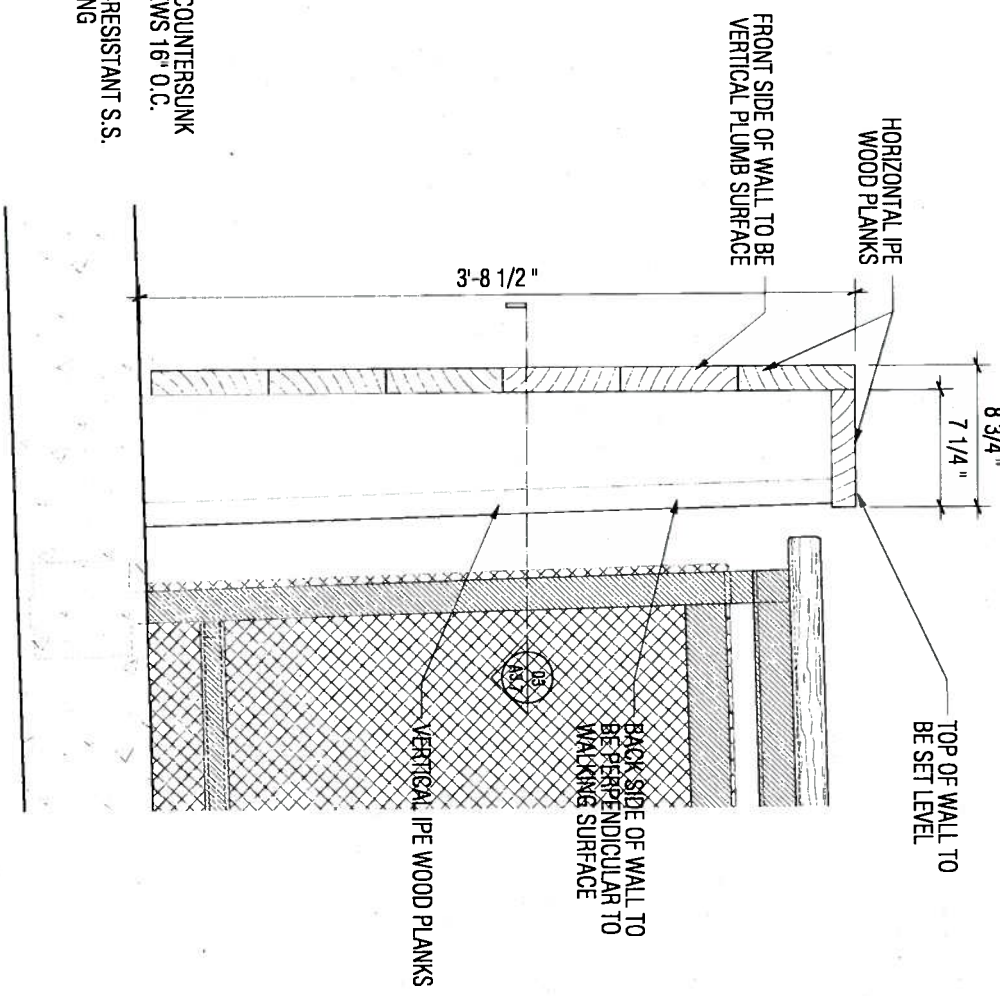
05 SECTION @ IPE STAIR TREAD
SCALE: 1"=1'-0"



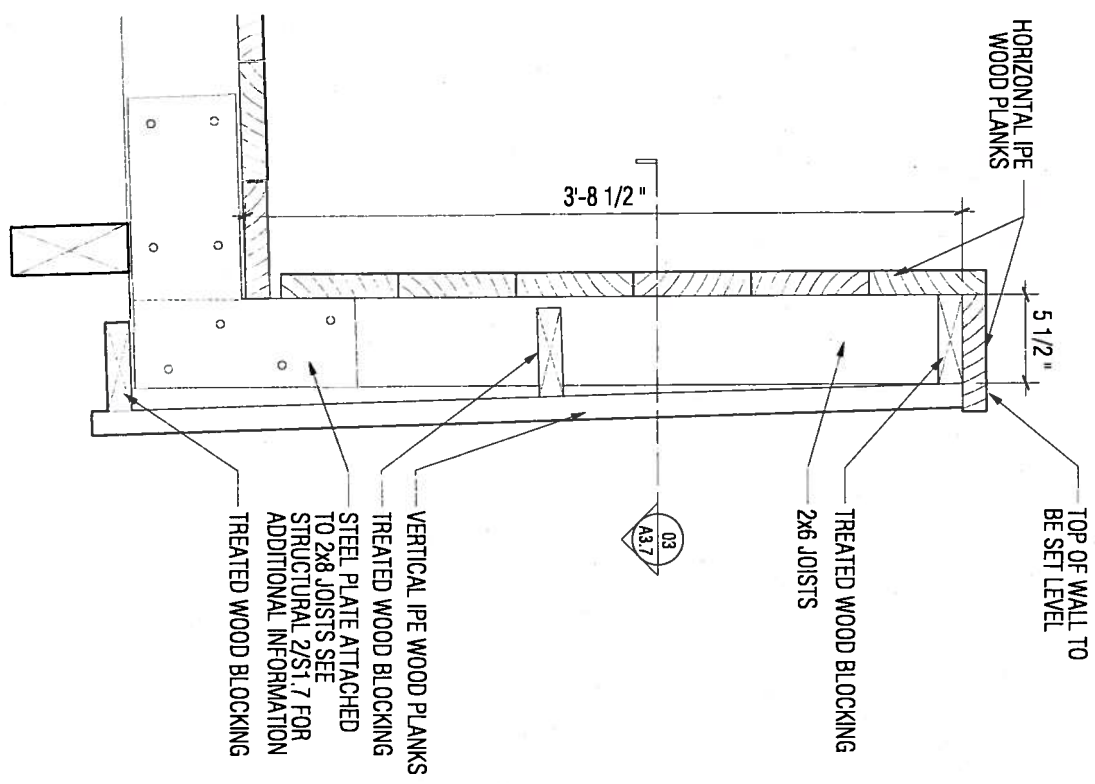
06 DETAIL @ IPE STAIR TREAD
SCALE: 1/2"=1"



07 DETAIL @ STAIR TREAD CORNER
SCALE: NTS



02 ELEVATION @ WOOD WALL
SCALE: 1"=1'-0"



01 SECTION @ WOOD WALL
SCALE: 1"=1'-0"

GENERAL NOTES

- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FASTENERS AND STRUCTURAL SIZING
- SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FUTURE WIRING AND POWER SUPPLIES

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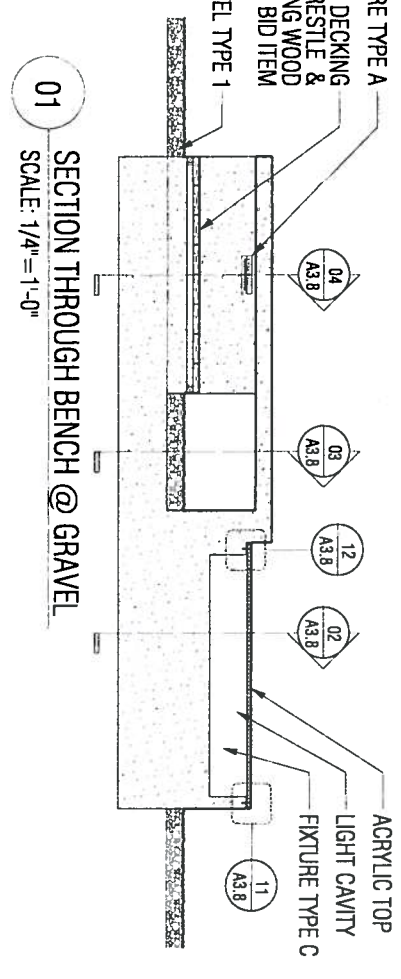
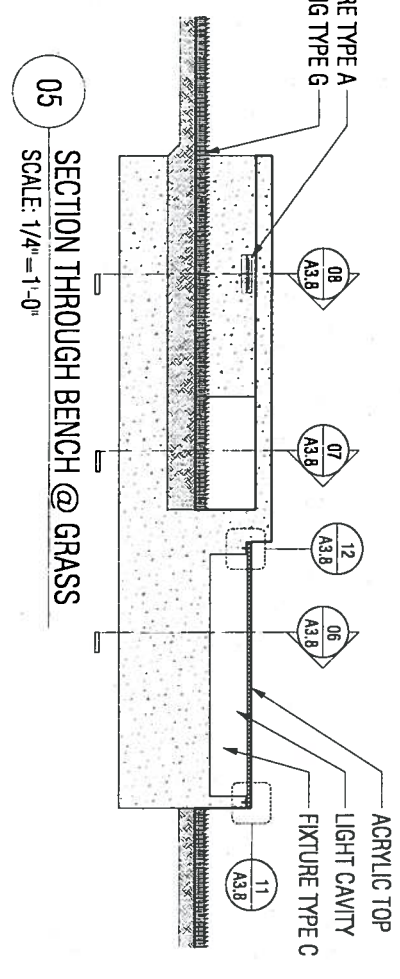
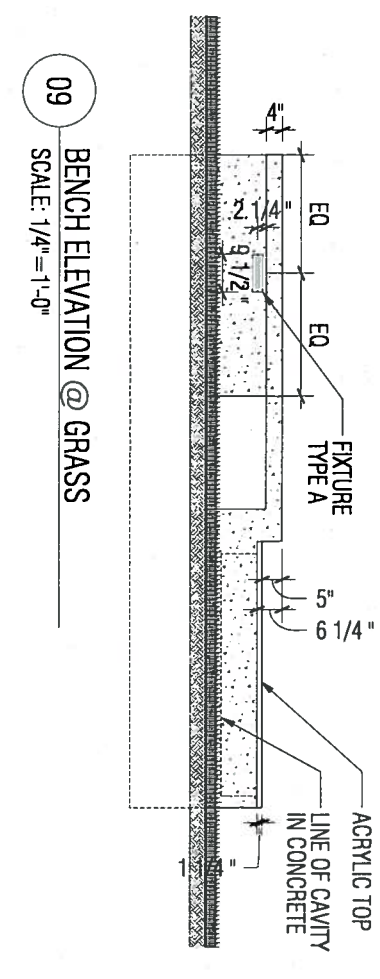
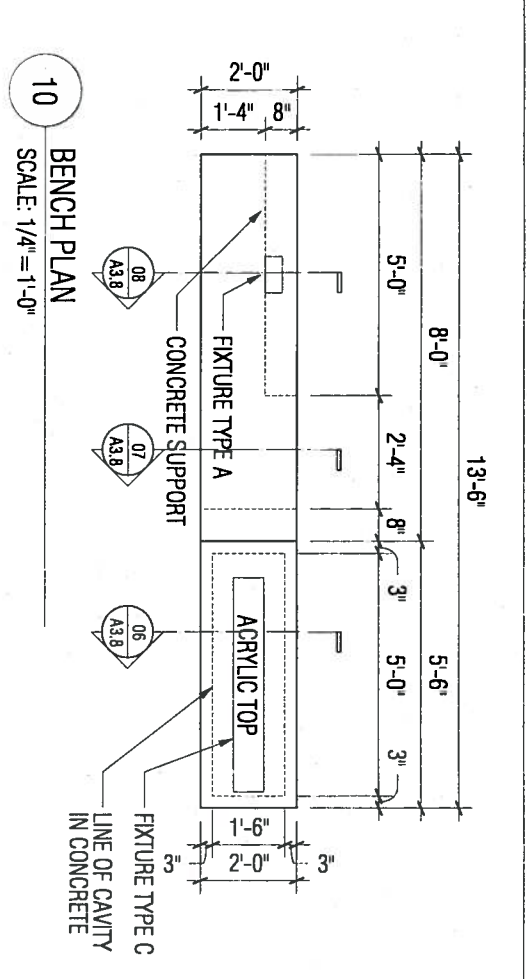
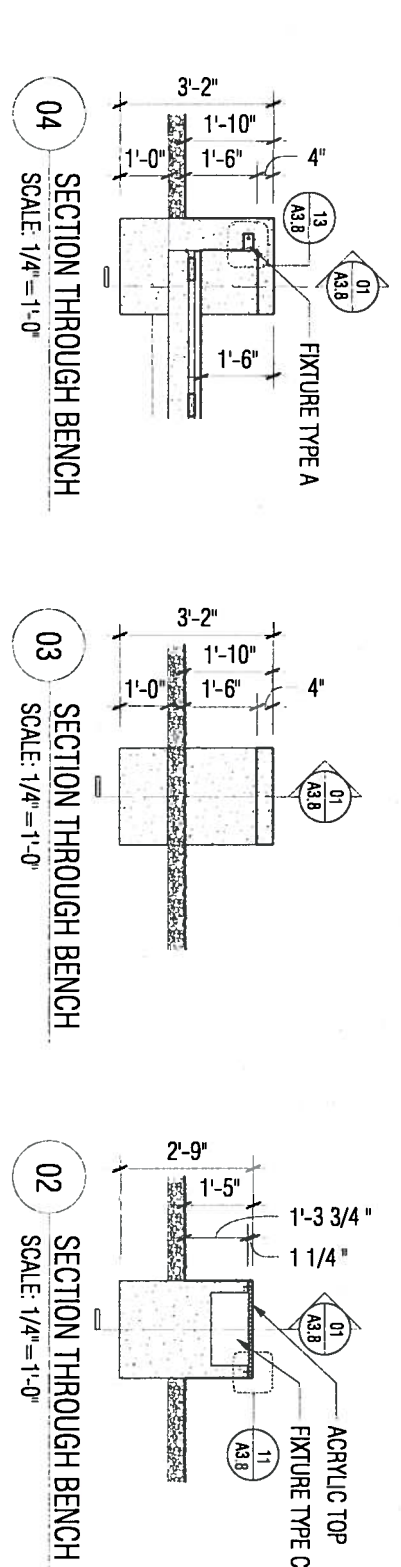
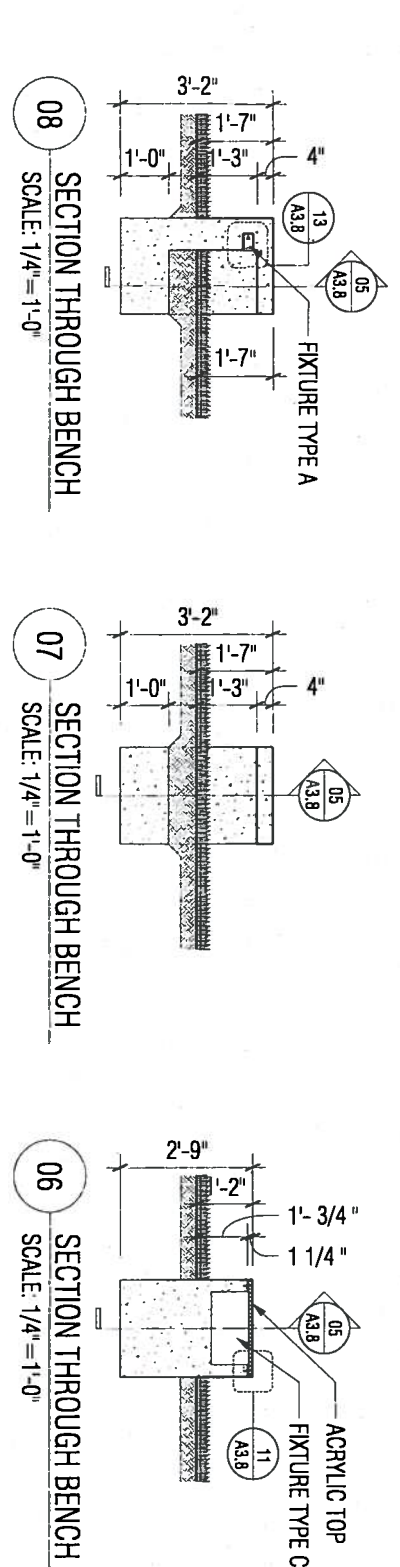
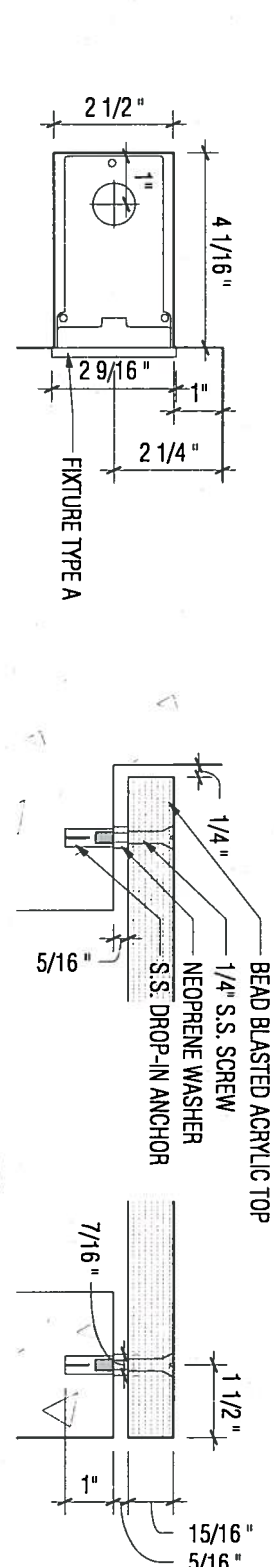
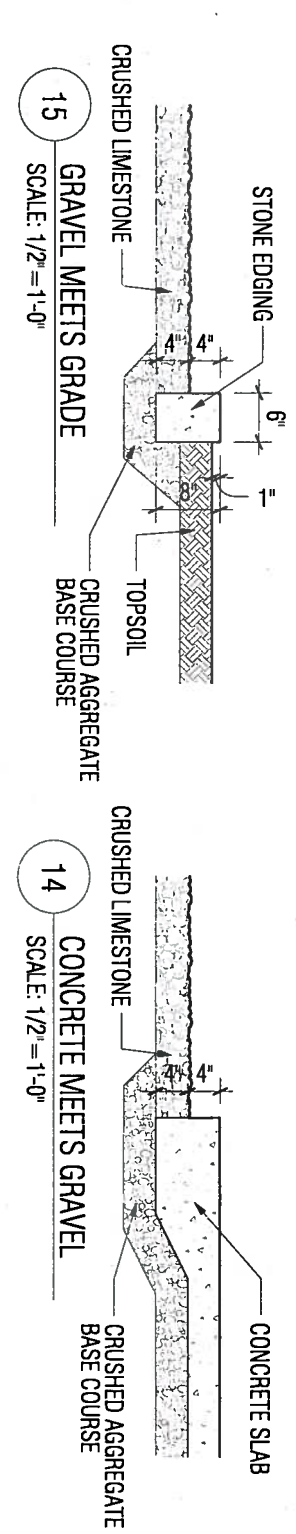
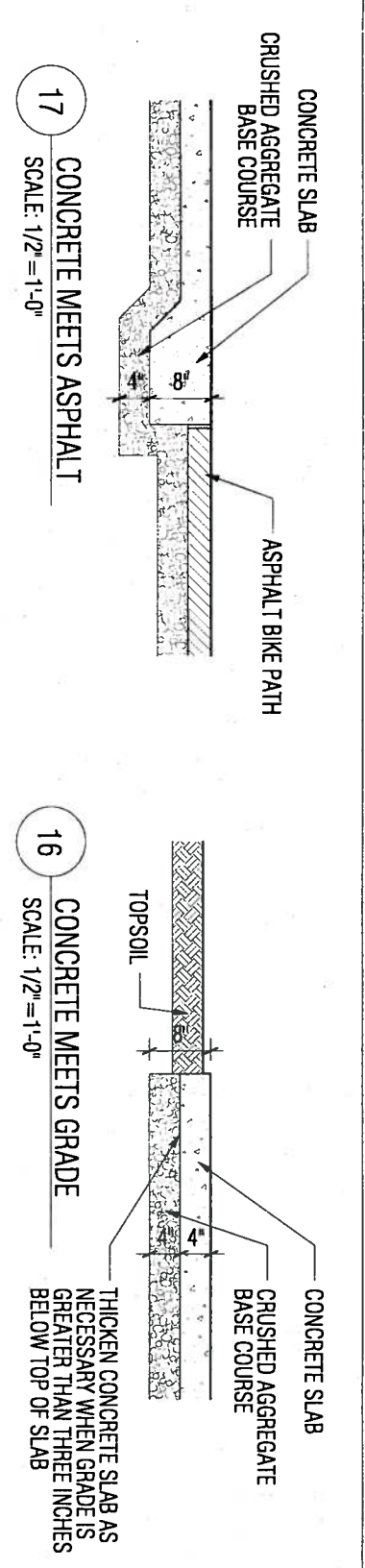
CONSTRUCTION DOCUMENTS

WOOD DETAILS

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CHECKED BY
PROJECT NO.
DATE
SCALE

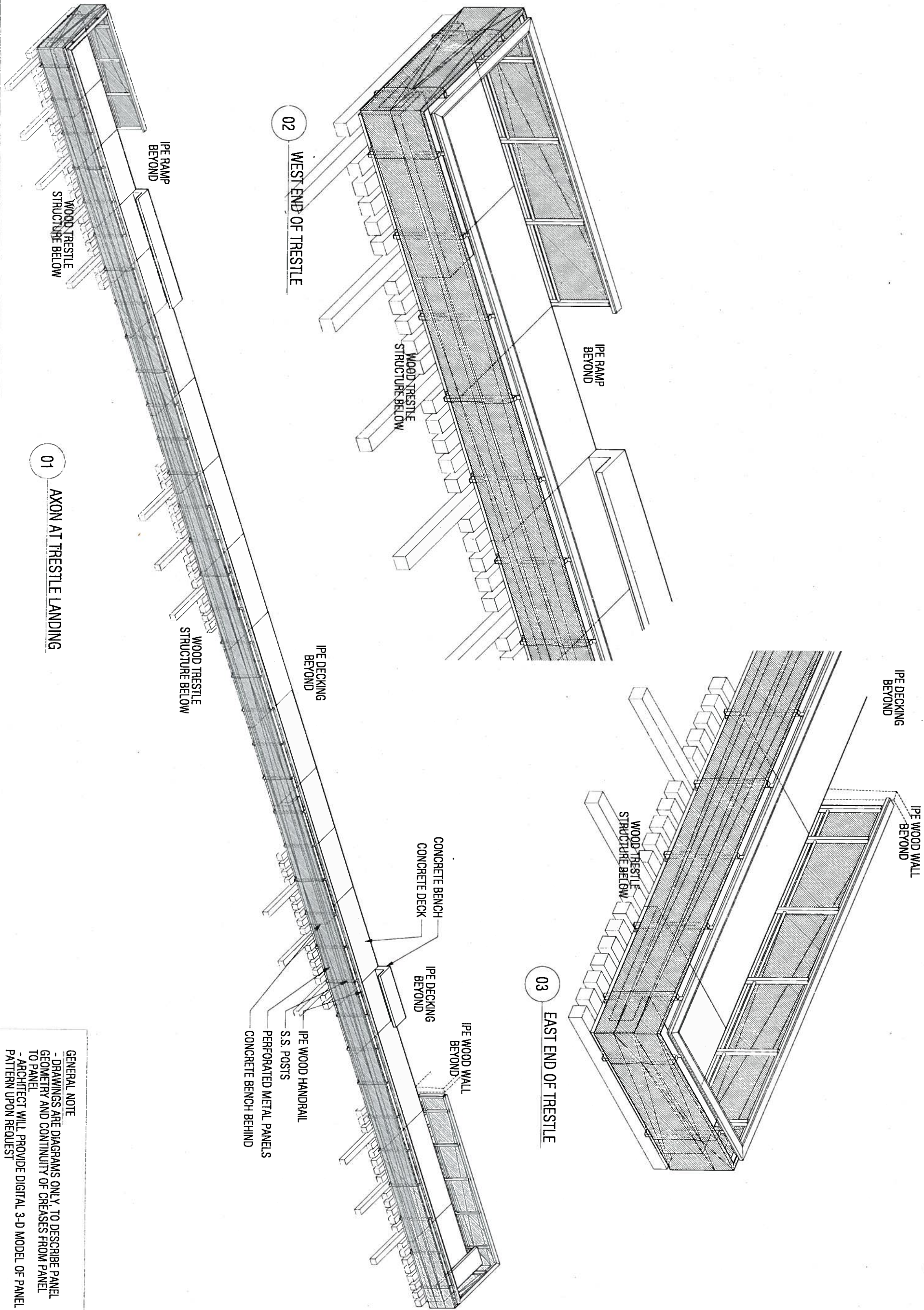
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JTD
0709
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A3.7



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NO.	DATE DESCRIPTION

CONSTRUCTION DOCUMENTS	
NORTH LANDING DETAILS	
DRAWN BY	BUT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	06.15.2010
SCALE	VARIOUS



GENERAL NOTE
- DRAWINGS ARE DIAGRAMS ONLY, TO DESCRIBE PANEL GEOMETRY AND CONTINUITY OF CREASES FROM PANEL TO PANEL
- ARCHITECT WILL PROVIDE DIGITAL 3-D MODEL OF PANEL PATTERN UPON REQUEST

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CONSTRUCTION DOCUMENTS
GUARDRAIL DIAGRAMS

DRAWN BY JMD
CHECKED BY JMD
PROJECT NO. 0709
DATE 08.15.2010
SCALE NTS

ELECTRICAL - ESTIMATED QUANTITIES SCHEDULE

BID ITEM NUMBER	ITEM DESCRIPTION	UNITS	QUANTITY
SPV.0060.06	RECESSED BENCH AND STEP LIGHT LUMINAIRE - TYPE A (LED STEP LIGHT)	EACH	29
SPV.0060.07	ACRYLIC BENCH LIGHT LUMINAIRE - TYPE C (ENCLOSED FLUORESCENT STRIP)	EACH	3
SPV.0060.08	RECESSED TREE UPLIGHT LUMINAIRE - TYPE D (IN GRADE UP-LIGHT)	EACH	8
SPV.0090.01	TRESTLE LANDING GUARD RAIL LUMINAIRE - TYPE E (LINEAR LED STRIP)	LINEAR FT	200
SPV.0060.09	LIGHTING CONTROL CABINET	EACH	1
SPV.0060.10	IN-GRADE LIGHTING PULL BOX	EACH	3
652.0101	METALLIC RIGID STEEL (RGS) CONDUIT - 3/4" TRADE SIZE	LINEAR FT	175
652.0201	NON-METALLIC CONDUIT (SCHEDULE 80 PVC) - 3/4" TRADE SIZE	LINEAR FT	898
652.0202	NON-METALLIC CONDUIT (SCHEDULE 80 PVC) - 1 1/2" TRADE SIZE	LINEAR FT	8
652.0203	NON-METALLIC CONDUIT (SCHEDULE 80 PVC) - 1/2" TRADE SIZE	LINEAR FT	54
655.0601	ELECTRICAL WIRE LIGHTING - #12 AWG (TYPE XHHW)	LINEAR FT	3165

PANEL "A"

100		AMPS MAIN CIRCUIT BREAKER		120/240 VOLT SINGLE PHASE, THREE WIRE						LOCATION: LIGHTING CONTROL CABINET			
MOUNTING TYPE: SURFACE IN CABINET				SHORT CIRCUIT INTERRUPTING RATING: 22 K.A.I.C									
CIRCUIT BKR		LOAD DESCRIPTION	LOAD TYPE	CIRCUIT		PHASE LOADS		CIRCUIT		LOAD TYPE	LOAD DESCRIPTION	CIRCUIT BKR	
AMPS	POLES			WATTS	#	A	B	#	WATTS			AMPS	POLES
15	2	TRESTLE LIGHTING CIRCUIT #1	L	450	1	450		2			SPACE ONLY		1
			L	450	3		450	4			SPACE ONLY		1
15	2	GUARD RAIL LIGHTING CIRCUIT #2	L	450	5	450		6			SPACE ONLY		1
			L	450	7		450	8			SPACE ONLY		1
15	1	CONTACTOR/TIMECLOCK CKT	E	200	9	200		10			SPACE ONLY		1
15	1	SPARE			11		0	12			SPACE ONLY		1
15	1	SPARE				13	0				SPACE ONLY		1
15	1	SPARE				15		16			SPACE ONLY		1
30	2	TVSS DEVICE	E		17	0		18			SPACE ONLY		1
			E		19		0	20			SPACE ONLY		1
				1100			900	PANEL TOTAL LOAD = 2.0 KW					

NOTES:

- 1) PANEL SHALL BE RATED FOR USE AS SERVICE ENTRANCE EQUIPMENT
- 2) PROVIDE CIRCUIT BREAKER QUANTITIES AS SHOWN ON THIS SCHEDULE
- 3) PANEL TO BE LOCATED WITHIN THE "LIGHTING CONTROL CABINET" ASSEMBLY AS DETAILED ON THE DRAWINGS. REFER TO DETAIL ON SHEET E1.5

GENERAL ELECTRICAL NOTES:

1. ALL NEW CONDUIT INSTALLED BELOW GRADE, CONCEALED IN THE CONCRETE BENCHES OR INSTALLED WITHIN CONCRETE SHALL BE SCHEDULE 80 NON-METALLIC PVC CONDUIT.
2. ALL NEW CONDUITS INSTALLED ABOVE GRADE OR EXPOSED TO WEATHER (IF ANY) SHALL BE RIGID STEEL CONDUIT. THE USE OF ABOVE GRADE CONDUITS SHALL BE MINIMIZED AS MUCH AS POSSIBLE.
3. ALL NEW CONDUITS INSTALLED BELOW THE NEW TRESTLE CONNECTOR PLATFORM SHALL BE INTERMEDIATE METALLIC CONDUIT (IMC) OR RIGID STEEL (RGS) CONDUIT.
4. ALL FINAL CONNECTIONS FROM JUNCTION BOXES TO LUMINAIRES OR LED DRIVERS SHALL BE DONE WITH #12 AWG WIRING IN FLEXIBLE LIQUIDTIGHT CONDUIT OR WITH SCHEDULE 80 NON-METALLIC PVC CONDUIT, AS APPROPRIATE FOR THE INSTALLATION LOCATION.
5. ALL NEW WIRING INSTALLED AS PART OF THIS PROJECT SHALL BE TYPE "XHHW-2" FOR UNDERGROUND OR OUTDOOR INSTALLATIONS. SOLID COPPER CONDUCTORS.
6. WIRING FOR LOW-VOLTAGE DC CABLING (FOR LED LUMINAIRES) SHALL BE #14 AWG MINIMUM. SIZE ALL LOW-VOLTAGE DC CABLING AS RECOMMENDED BY THE LUMINAIRE MANUFACTURER.
7. ALL EXPOSED CONDUIT AND JUNCTION BOXES SHALL BE PRIMED AND PAINTED TO MATCH THE EXISTING STRUCTURE COLOR. THE INTENT IS TO CONCEAL CONDUIT FROM VIEW TO THE EXTEND POSSIBLE.
8. ALL NUTS, BOLTS, UNISTRUT, THREADED RODS, UNISTRUT STRAPS, ANCHORS AND ROD COUPLINGS SHALL BE STAINLESS STEEL.
9. ALL CONDUITS INSTALLED BELOW GRADE SHALL BE INSTALLED AT A DEPTH NO LESS THAN 24" BELOW FINISHED GRADE.
10. INSTALL EXPANSION FITTINGS FOR ANY RIGID CONDUIT INSTALLATIONS THAT EXCEED 25- FEET AND INSTALLED IN AREAS LOCATED EXPOSED TO WEATHER.

PROJECT SCOPE NOTES:

- A. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT MOUNTING LOCATION OF ALL LIGHTING LUMINAIRES INSTALLED DURING THIS PROJECT.
- B. ALL LIGHTING LUMINAIRES ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. PROVIDE ALL ACCESSORIES FOR EACH LUMINAIRE AS REQUIRED FOR A COMPLETE INSTALLATION.
- C. ALL LUMINAIRES INSTALLED AS PART OF THIS PROJECT SHALL BE WIRED TO TWO (2) 240-VOLT LIGHTING CIRCUITS FURNISHED FROM THE NEW LIGHTING PANEL "A" INSTALLED IN THE NEW LIGHTING CONTROL CABINET ENCLOSURE. REFER TO SHEET E1.0 FOR LOCATION.

- D. PROVIDE A NEW 100-AMPERE, 120/240-VOLT, 1-PHASE, 3-WIRE ELECTRICAL SERVICE FROM WE ENERGIES. THE MAIN CONTACT AT WE ENERGIES FOR THIS PROJECT SHALL BE JIM WARD AT TELEPHONE (414) 449-3013, EMAIL ADDRESS: jim.ward@we-energies.com

- E. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL NEW LIGHTING LUMINAIRES AS SHOWN IN THIS DRAWING SET. THAT SHALL INCLUDE ALL REQUIRED RACEWAYS, BOXES, WIRING, ETC. FOR A COMPLETE INSTALLATION.

- F. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF PAVED SURFACES (ASPHALT OR CONCRETE) AS REQUIRED TO COMPLETE THE INSTALLATION WORK AS SHOWN IN THIS DRAWING SET.

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414 225 7450
414 225 7451

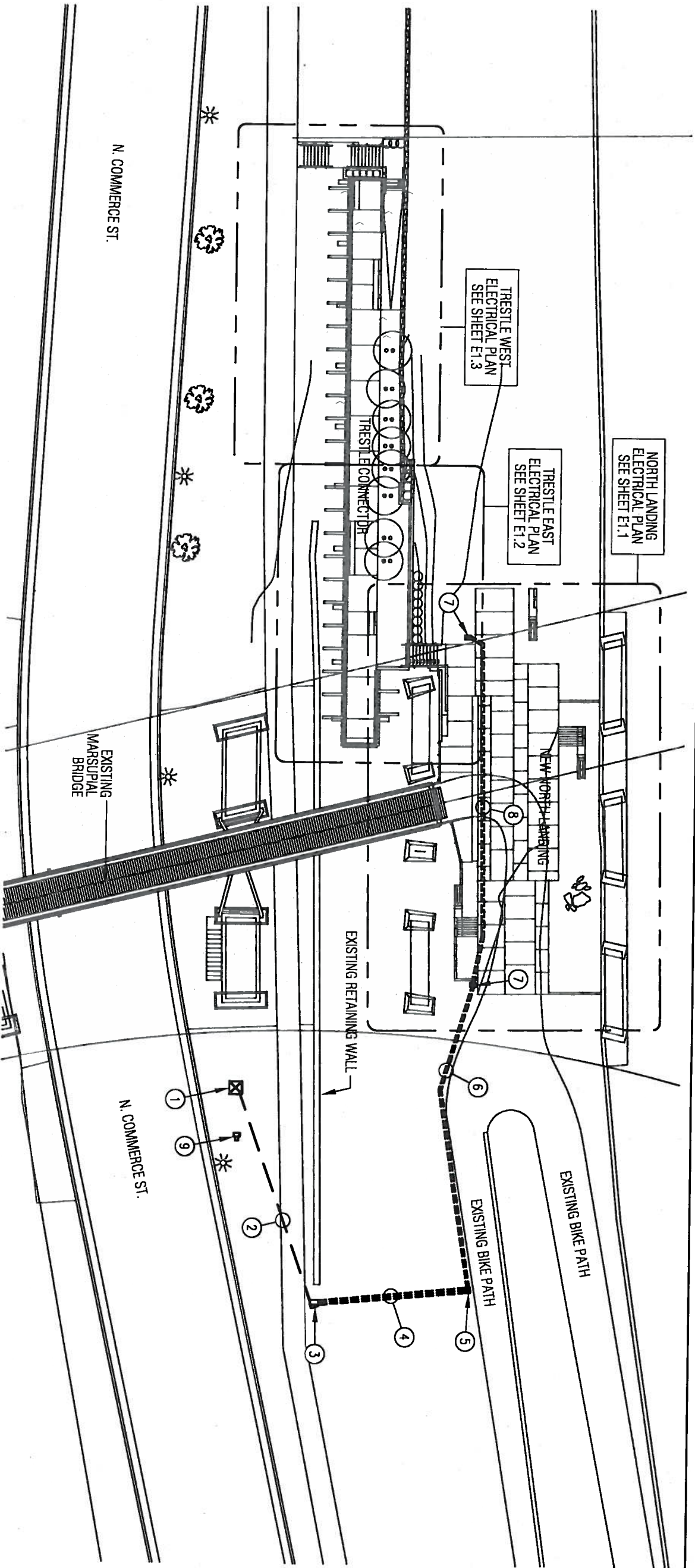
REVISIONS

NO.	DATE	DESCRIPTION



CONSTRUCTION DOCUMENTS
ELECTRICAL NOTES
AND SCHEDULES

DRAWN BY: RHW
CHECKED BY: RHW
PROJECT NO: 0709
DATE: 03.28.2011
SCALE: 1" = 80'-0"



ELECTRICAL KEYED NOTES

- 1 EXISTING WE ENERGIES TRANSFORMER TO BE USED FOR NEW ELECTRICAL SERVICE CABINET ENCLOSURE FOR TRESTLE LIGHTING CIRCUITS. COORDINATE NEW ELECTRICAL SERVICE WITH WE ENERGIES AS REQUIRED.
- 2 SERVICE LATERAL CONDUCTORS FROM TRANSFORMER TO METERING PEDESTAL AT LIGHTING CONTROL CABINET ENCLOSURE TO BE FURNISHED AND INSTALLED BY WE ENERGIES AS PART OF ELECTRICAL SERVICE INSTALLATION. COORDINATE IN FIELD WITH WE ENERGIES AS REQUIRED. PROVIDE A 1 1/2" SCHEDULE 80 PVC CONDUIT STUB 5- FEET FROM SERVICE ENCLOSURE CONCRETE PAD FOR USE BY WE ENERGIES FOR CABLING SERVICE ENTRANCE INTO LIGHTING CONTROL CABINET.
- 3 ELECTRICAL LIGHTING CONTROL CABINET ENCLOSURE THAT CONTAINS PANEL "A" AND CONTROLS (CONTACTOR/TIMECLOCK) TO SERVE THE LIGHTING ON THIS PROJECT. ALL EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS PART OF LIGHTING CONTROL CABINET. REFER TO THE SPECIFICATIONS AND SHEET E1.5 FOR A MORE DETAILED VIEW OF LIGHTING CONTROL CABINET.
- 4 PROVIDE THREE (3) 3/4" SCHEDULE 80 PVC CONDUITS AT +24" BELOW FINISHED GRADE FOR SECONDARY CONDUCTORS TO LIGHTING LUMINAIRES ON THE NORTH LANDING AND TRESTLE PLAZA. ROUTE CONDUITS UP SLOPE LOCATED TO WEST OF SERVICE CABINET TO THE IN-GRADE QUARTZITE PULL BOX LOCATED ON GRADE LEVEL WITH BIKE PATH. CONDUITS TO PROVIDE CABLING FOR THIS PROJECT AND FUTURE CABLING PATHWAY FOR ANY POTENTIAL FUTURE LIGHTING CIRCUITS ON THIS LEVEL FROM THE SERVICE CABINET BEING INSTALLED AS PART OF THIS PROJECT.
- 5 PROVIDE A 10"x15" LIGHTING QUARTZITE PULLBOX IN-GRADE ENCLOSURE AT TOP OF HILL NEAR EXISTING BIKE PATH. FIELD VERIFY EXACT LOCATION. REFER TO SHEET E1.5 FOR "QUARTZITE PULLBOX DETAIL"
- 6 PROVIDE TWO (2) 3/4" SCHEDULE 80 PVC CONDUITS AT 24" BELOW GRADE FOR LIGHTING CIRCUITS TO THE NORTH LANDING PLAZA AND TRESTLE LIGHTING AS SHOWN IN THIS DRAWING SET.
- 7 PROVIDE A 10"x15" LIGHTING QUARTZITE PULLBOX IN-GRADE ENCLOSURE ON EACH SIDE OF PLAZA WITHIN A NON-PAVED AREA AS SHOWN. FIELD VERIFY EXACT FINAL LOCATION.
- 8 PROVIDE TWO (2) 3/4" SCHEDULE 80 PVC CONDUITS AT 24" BELOW GRADE ACROSS THE NORTH LANDING PLAZA. ONE FOR CURRENT PROJECT AND ONE SPARE FOR FUTURE USE. CONDUITS TO BE RUN IN AREAS WITH NEW PAVING AS PART OF THIS PROJECT. DO NOT CROSS AREAS WHERE EXISTING PAVING SHALL REMAIN. COORDINATE WITH ARCHITECTURAL DRAWINGS A1.3 FOR LOCATIONS OF EXISTING AND NEW PAVED SURFACES IN THIS AREA. ALL NEW LIGHTING CIRCUITS TO BE FED FROM THESE PULLBOX LOCATIONS. REFER TO ELECTRICAL SHEETS E1.1 THRU E1.3 FOR MORE INFORMATION.
- 9 EXISTING ELECTRICAL METERING PEDESTAL AND TELEPHONE PEDESTAL TO REMAIN AS IS. THESE DEVICES ARE NOT ASSOCIATED WITH THIS PROJECT.

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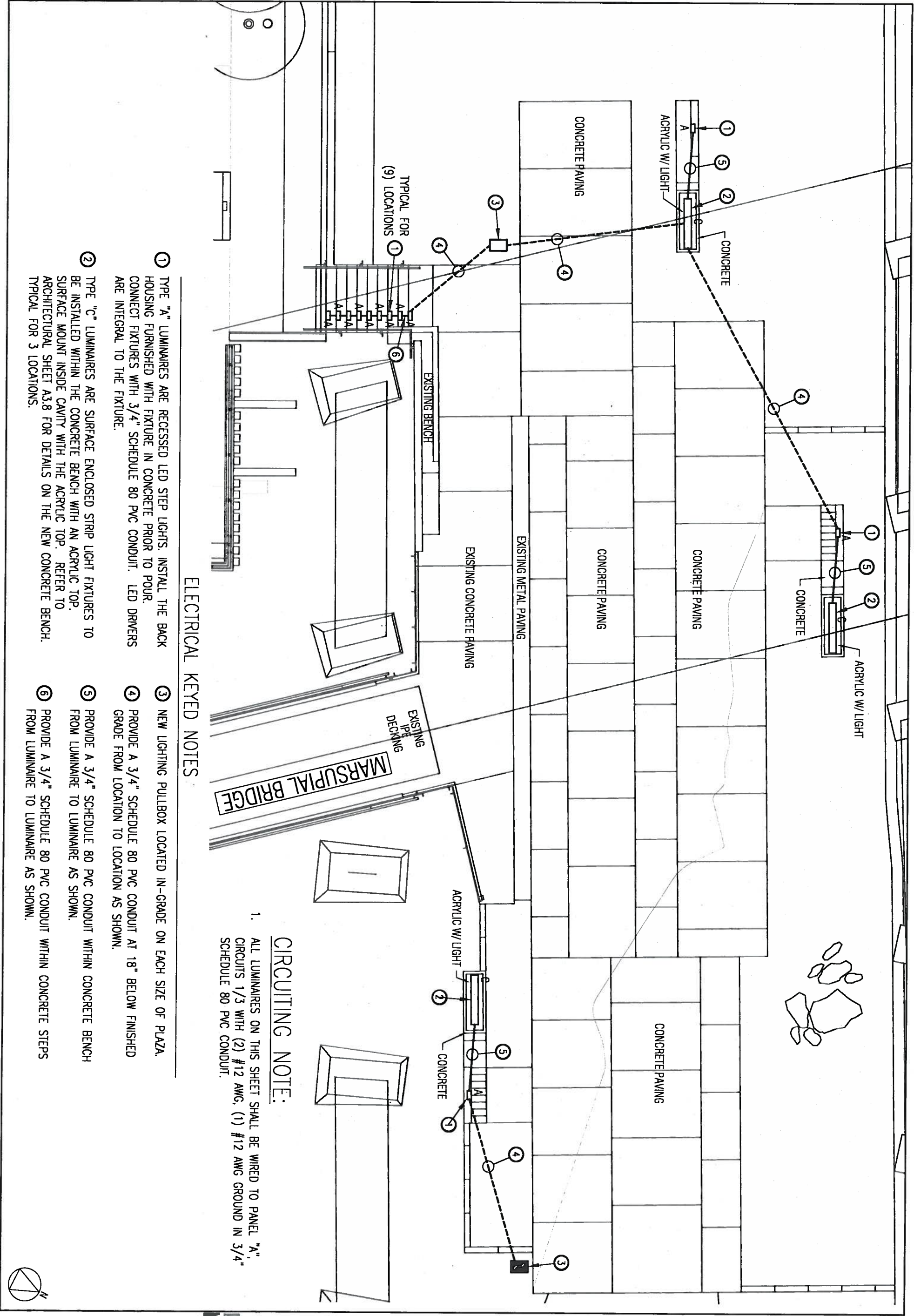


THE
MATRIX
GROUP
ENGINEERING CONSULTANTS

225 E. ST. PAUL AVE. SUITE 302
MILWAUKEE, WI 53202
414.225.7450
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CONSTRUCTION DOCUMENTS
OVERALL SITE PLAN -
ELECTRICAL

DRAWN BY	RHW
CHECKED BY	RHW
PROJECT NO.	0709
DATE	03.28.2011
SCALE	1" = 30'-0"



ELECTRICAL KEYED NOTES

- 1 TYPE "A" LUMINAIRES ARE RECESSED LED STEP LIGHTS. INSTALL THE BACK HOUSING FURNISHED WITH FIXTURE IN CONCRETE PRIOR TO POUR. CONNECT FIXTURES WITH 3/4" SCHEDULE 80 PVC CONDUIT. LED DRIVERS ARE INTEGRAL TO THE FIXTURE.
- 2 TYPE "C" LUMINAIRES ARE SURFACE ENCLOSED STRIP LIGHT FIXTURES TO BE INSTALLED WITHIN THE CONCRETE BENCH WITH AN ACRYLIC TOP. SURFACE MOUNT INSIDE CAVITY WITH THE ACRYLIC TOP. REFER TO ARCHITECTURAL SHEET A3.8 FOR DETAILS ON THE NEW CONCRETE BENCH. TYPICAL FOR 3 LOCATIONS.

- 3 NEW LIGHTING PULLBOX LOCATED IN-GRADE ON EACH SIDE OF PLAZA.
- 4 PROVIDE A 3/4" SCHEDULE 80 PVC CONDUIT AT 18" BELOW FINISHED GRADE FROM LOCATION TO LOCATION AS SHOWN.
- 5 PROVIDE A 3/4" SCHEDULE 80 PVC CONDUIT WITHIN CONCRETE BENCH FROM LUMINAIRE TO LUMINAIRE AS SHOWN.
- 6 PROVIDE A 3/4" SCHEDULE 80 PVC CONDUIT WITHIN CONCRETE STEPS FROM LUMINAIRE TO LUMINAIRE AS SHOWN.

CIRCUITING NOTE:

- 1. ALL LUMINAIRES ON THIS SHEET SHALL BE WIRED TO PANEL "A", CIRCUITS 1/3 WITH (2) #12 AWG, (1) #12 AWG GROUND IN 3/4" SCHEDULE 80 PVC CONDUIT.

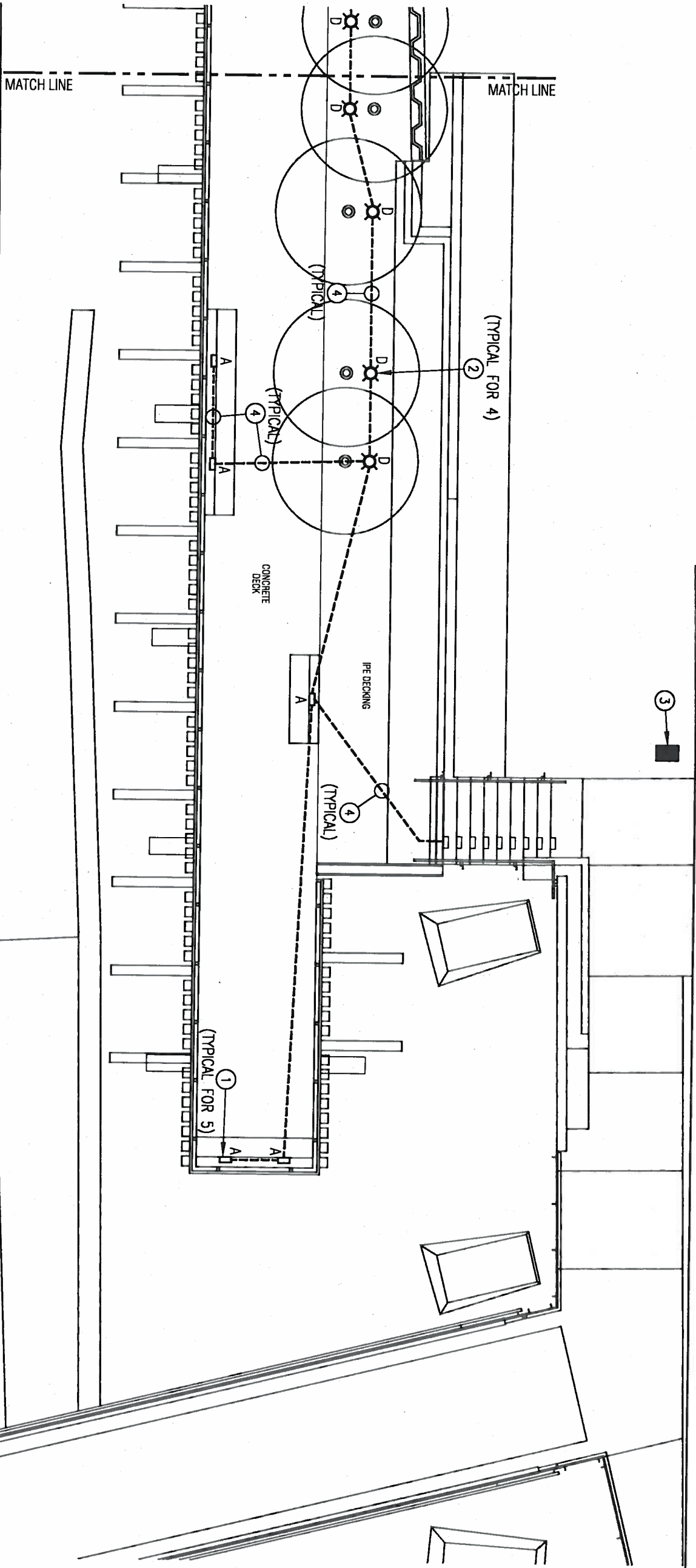
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225 E. St. Paul Ave., Suite 302
Milwaukee, WI 53202
414 225 7450
fax 225 7451

REVISIONS		
NO.	DATE	DESCRIPTION



CONSTRUCTION DOCUMENTS
NORTH LANDING -
ELECTRICAL PLAN

DRAWN BY: RWW
CHECKED BY: RWW
PROJECT NO.: 0709
DATE: 08.28.2011
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

1. ALL LUMINAIRES (TYPE A, TYPE D) ON THIS SHEET SHALL BE WIRED TO PANEL "A", CIRCUIT 1/3 (240-VOLT) WITH (2) #12 AWG, (1) #12 AWG GROUND IN 3/4" SCHEDULE 80 PVC CONDUIT.
2. THE LOCATION AND INSTALLATION INFORMATION FOR THE GUARDRAIL LIGHT FIXTURE (TYPE E - SPV.0090.01) IS SHOWN IS INDICATED ON SHEET E1.4

ELECTRICAL KEYED NOTES

- ① TYPE "A" LUMINAIRES ARE RECESSED LED STEP LIGHTS. INSTALL THE BACK HOUSING FURNISHED WITH FIXTURE IN CONCRETE PRIOR TO POUR. CONNECT FIXTURES WITH 3/4" PVC CONDUIT. LED DRIVERS ARE INTEGRAL TO THE FIXTURE.
- ② TYPE "D" LUMINAIRES - RECESSED IN-GRADE UPLIGHT WITH COOL TOUCH LENS. MOUNT FIXTURE HOUSING THROUGH IPE DECKING MATERIAL. SUPPORT HOUSING BELOW DECK AS REQUIRED TO MAINTAIN A RIGID INSTALLATION AND PREVENT MOVEMENT. REFER TO ARCHITECTURAL DETAILS ON SHEET A3.6
- ③ NEW LIGHTING PULL BOX LOCATED IN-GRADE ON EACH SIZE OF PLAZA. REFER TO SHEET E1.1 FOR MORE INFORMATION AND CONTINUATION OF ELECTRICAL RACEWAYS.
- ④ PROVIDE A 3/4" CONDUIT FROM LUMINAIRE TO LUMINAIRE AS SHOWN. CONDUIT TO BE RIGID STEEL CONDUIT WHEN EXPOSED. CONDUIT CAN BE PVC WHEN INSTALLED IN CONCRETE OR BELOW GRADE. ALL CONDUIT TO BE PAINTED TO MATCH AS REQUIRED.

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Milwaukee, WI 53202
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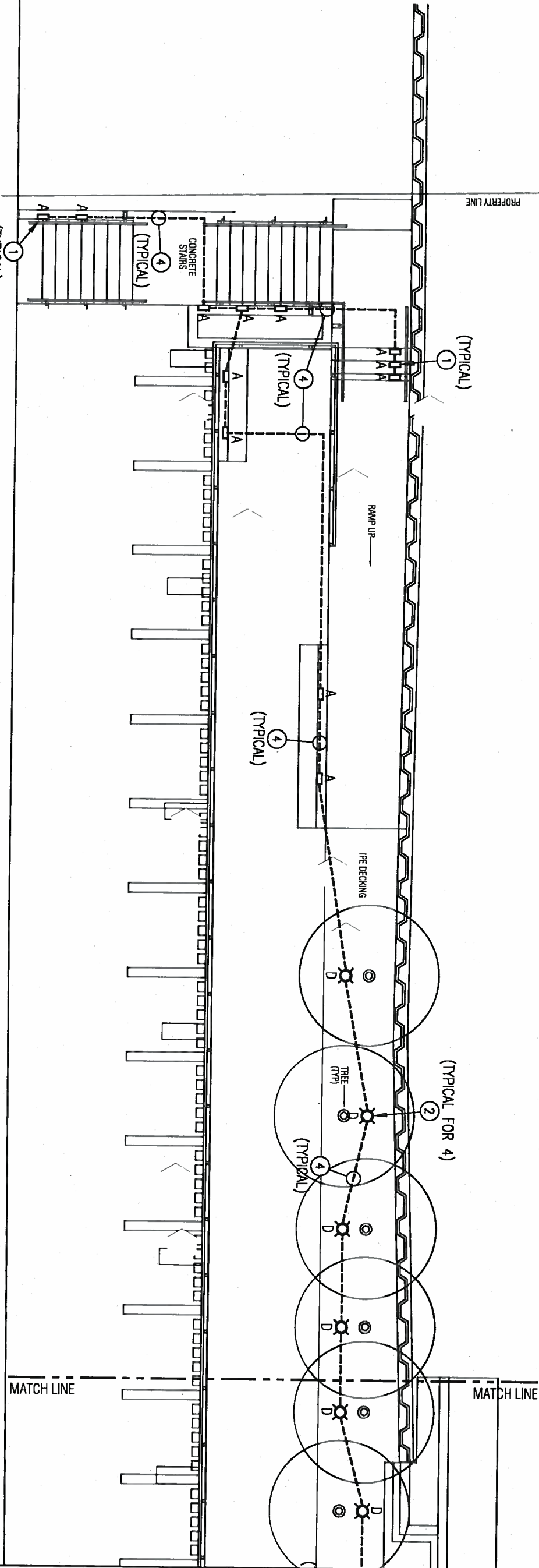
REVISIONS

NO. DATE DESCRIPTION



CONSTRUCTION DOCUMENTS
TRESTLE EAST -
ELECTRICAL PLAN

DRAWN BY: RWW
CHECKED BY: RWW
PROJECT NO: 0709
DATE: 03.28.2011
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

- 1. ALL LUMINAIRES (TYPE A, TYPE D) ON THIS SHEET SHALL BE WIRED TO PANEL "A", CIRCUIT 1/3 (240-VOLT) WITH (2) #12 AWG, (1) #12 AWG GROUND IN 3/4" SCHEDULE 80 PVC CONDUIT.
- 2. THE LOCATION AND INSTALLATION INFORMATION FOR THE GUARDRAIL LIGHT FIXTURE (TYPE E - SPV.0090.01) IS SHOWN IS INDICATED ON SHEET E1.4

ELECTRICAL KEYED NOTES

- ① TYPE "A" LUMINAIRES ARE RECESSED LED STEP LIGHTS. INSTALL THE BACK HOUSING FURNISHED WITH FIXTURE IN CONCRETE PRIOR TO POUR. CONNECT FIXTURES WITH 3/4" PVC CONDUIT. LED DRIVERS ARE INTEGRAL TO THE FIXTURE.
- ② TYPE "D" LUMINAIRES - RECESSED IN-GRADE UPLIGHT WITH COOL TOUCH LENS. MOUNT FIXTURE HOUSING THROUGH IPE DECKING MATERIAL. SUPPORT HOUSING BELOW DECK AS REQUIRED TO MAINTAIN A RIGID INSTALLATION AND PREVENT MOVEMENT. REFER TO ARCHITECTURAL DETAILS ON SHEET A3.6
- ③ NEW LIGHTING PULL BOX LOCATED IN-GRADE ON EACH SIZE OF PLAZA. REFER TO SHEET E1.1 FOR MORE INFORMATION AND CONTINUATION OF ELECTRICAL RACEWAYS.
- ④ PROVIDE A 3/4" CONDUIT FROM LUMINAIRE TO LUMINAIRE AS SHOWN. CONDUIT TO BE RIGID STEEL CONDUIT WHEN EXPOSED. CONDUIT CAN BE PVC WHEN INSTALLED IN CONCRETE OR BELOW GRADE. ALL CONDUIT TO BE PAINTED TO MATCH AS REQUIRED.

LA DALLMAN ARCHITECTS Inc
225 E. St. Paul Ave. Suite 302
Milwaukee, WI 53202
414 225 7450
fax 225 7451

REVISIONS

NO. DATE DESCRIPTION

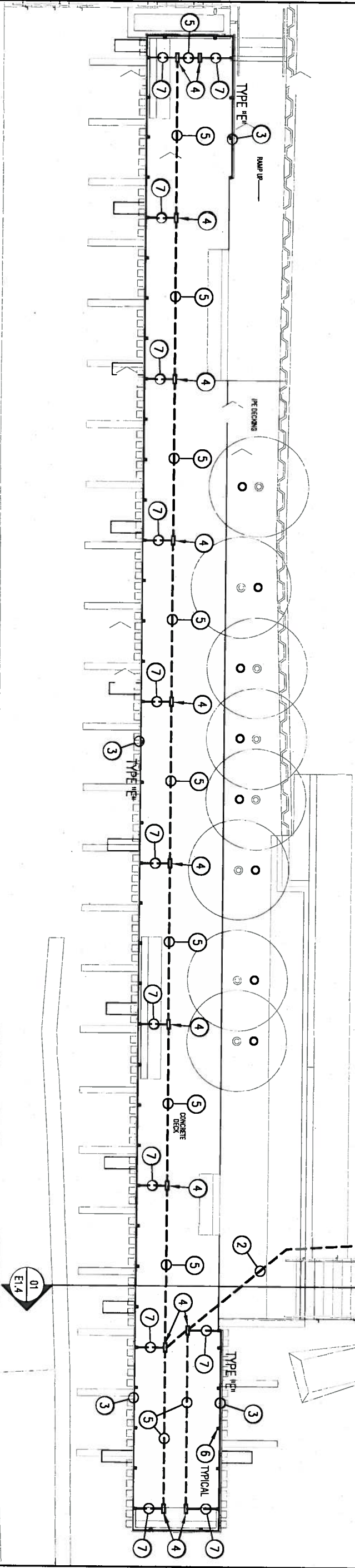


CONSTRUCTION DOCUMENTS
TRESTLE WEST -
ELECTRICAL PLAN

DRAWN BY: RWW
CHECKED BY: RWW
PROJECT NO: 0709
DATE: 03.28.2011
SCALE: 1/8" = 1'-0"

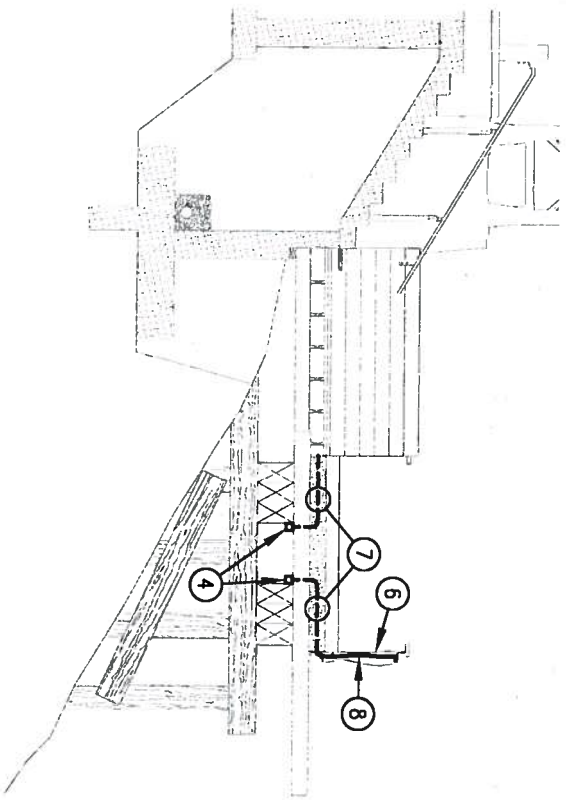
GENERAL NOTES:

1. THE TYPE "E" GUARD RAIL LUMINAIRES ON THIS SHEET SHALL BE WIRED TO PANEL "A", CIRCUIT 5/7 (240-VOLT) WITH (2) #12 AWG, (1) #12 AWG GROUND IN 3/4" SCHEDULE 80 PVC CONDUIT.
2. THE GUARDRAIL LIGHT FIXTURE (TYPE E - SPV.0090.01) SHALL BE A COMPLETE PACKAGE FURNISHED BY THE MANUFACTURER. THIS SHALL INCLUDE ALL LED SECTIONS, MOUNTING HARDWARE, POWER SUPPLIES AND 24-VOLT DC CABLING AS NEEDED FOR A COMPLETE INSTALLATION AS SHOWN ON THIS DRAWING. THE ELECTRICAL CONTRACTOR SHALL ONLY PROVIDE THE NECESSARY LABOR FOR THE SYSTEM INSTALLATION AS REQUIRED.



ELECTRICAL KEYED NOTES

- 1 NEW LIGHTING PULL BOX LOCATED IN-GRADE ON EACH SIDE OF PLAZA. REFER TO SHEET E1.1 FOR MORE INFORMATION AND CONTINUATION OF ELECTRICAL RACEWAYS.
- 2 PROVIDE A 3/4" PVC CONDUIT AT +18" BELOW GRADE OR IN CONCRETE FROM PULL BOX TO FIRST LED POWER SUPPLY AS SHOWN.
- 3 TYPE "E" LUMINAIRES - CONTINUOUS LED STRIP LIGHT. TYPE "E" FIXTURE TO BE INSTALLED IN AT ANGLE PROVIDED WITH TRESTLE LANDING DECORATIVE HANDRAIL. REFER TO THE ARCHITECTURAL SECTION ON SHEET A3.1 FOR LOCATION. PROVIDE WIRING UP FROM POWER SUPPLY AT HANDRAILS AS NEEDED. CONCEAL ALL WIRING AS MUCH AS POSSIBLE.
- 4 POWER SUPPLY WITH LED DRIVERS FOR TYPE "E" LUMINAIRE. LOCATE POWER SUPPLY BELOW CONCRETE DECK AND TRESTLE TIES. REFER TO SECTION "01/E1.4" ON THIS SHEET FOR MORE INFORMATION. PROVIDE HARD WIRE CONNECTION TO POWER SUPPLY AS REQUIRED. MOUNT PERPENDICULAR TO POST LOCATION AS SHOWN TO MINIMIZE CABLE DISTANCE FOR 24-VOLT CABLING TO FIXTURE. (TYPICAL FOR 13 LOCATIONS).
- 5 PROVIDE A 3/4" RIGID STEEL CONDUIT BELOW NEW CONCRETE DECKING FROM POWER SUPPLY TO POWER SUPPLY AS SHOWN. CONDUIT TO BE PAINTED TO MATCH AS REQUIRED.
- 6 LOCATION OF A STEEL POST FOR GUARDRAIL TO BE USED FOR 24-VOLT DC CABLING UP TO LED FIXTURE. REFER TO SECTION "01/E1.4" ON THIS SHEET AND ARCHITECTURAL SHEETS A2.0, A2.1, A3.1 AND A3.2 FOR MORE ARCHITECTURAL SECTIONS AND DETAILS. (TYPICAL)
- 7 PROVIDE A 1/2" PVC CONDUIT FROM POWER SUPPLY TO POST AS SHOWN FOR 24-VOLT CABLING PATHWAY. MOUNT CONDUIT WITHIN NEW CONCRETE SLAB AS SHOWN IN SECTION "01/E1.4" ON THIS SHEET. CONDUIT TO STUB INTO HOLLOW RECTANGULAR POST.
- 8 PROVIDE 24-VOLT CABLING FROM POWER SUPPLY TO TYPE "E" GUARDRAIL LIGHTING FIXTURE AS REQUIRED. CABLING TO BE WITHIN CONDUIT UP TO POST AND EXPOSED WITHIN HOLLOW RECTANGULAR POST UP TO FIXTURE AS SHOWN. (TYPICAL FOR 13 LOCATIONS).



1 TRESTLE SECTION
SCALE: 1/8" = 1'-0"

LA DALLMAN ARCHITECTS Inc
225 E. St. Paul Ave. Suite 302
Milwaukee, WI 53202
414 225 7450
fax 225 7451

NO.	DATE	DESCRIPTION



CONSTRUCTION DOCUMENTS
TRETTLE GUARDRAIL
LIGHTING PLAN

DRAWN BY: RWW
CHECKED BY: RWW
PROJECT NO: 0709
DATE: 03.28.2011
SCALE: 3/32" = 1'-0"

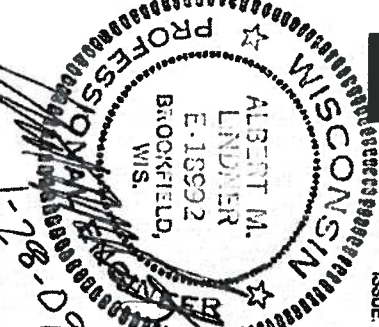
One Honey Creek Corporate Center
125 South 84th Street,
Suite 401
Milwaukee, WI 53214-1470
414 / 259 1500
414 / 259 0037 fax
www.graf-usa.com

CONSULTANTS:

PROJECT TITLE:

B-40-736

ISSUE:



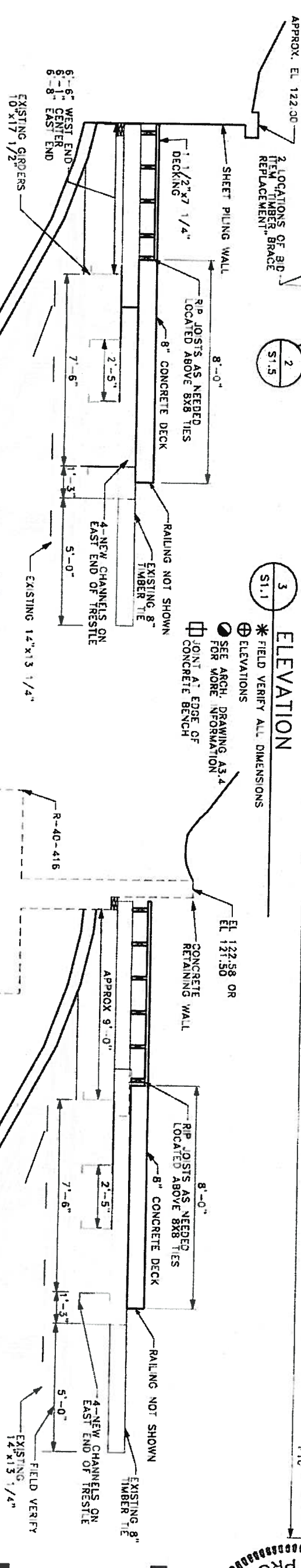
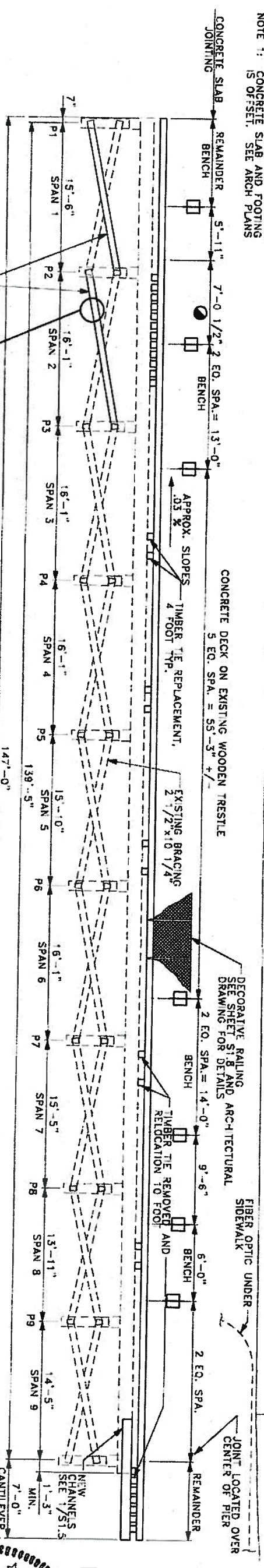
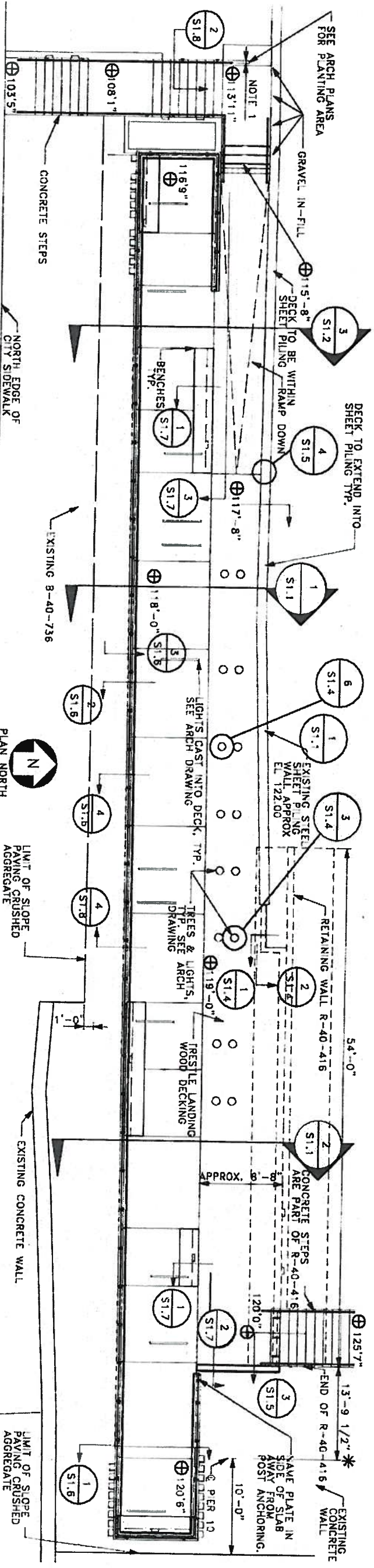
PROJECT INFORMATION:

PROJECT NUMBER: 20080114.00
DATE: 12/1/08
DRAWN BY: RBH
CHECKED BY: JRS
APPROVED BY: AML
SCALE:

SHEET TITLE:

GENERAL PLAN

SHEET NUMBER:



DISCREET
HOTLINE
Toll Free (800) 842-0811
Hearing Impaired TDD (800) 842-3288
www.DiscreetHotline.com

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS ARE IN FEET AND INCHES.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE SLOPE OF THE FILL IN FRONT OF THE EXISTING STEEL SHEET PILE AND NEW CONCRETE RETAINING WALL SHALL BE COVERED WITH SLOPE PAVING CRUSHED AGGREGATE TO THE EXTENT SHOWN ON THE PLAN.

THE FIRST DIGIT OF A THREE DIGIT AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

CONTRACTOR SHALL SUPPLY A NAME PLATE IN ACCORDANCE WITH SECTION 520.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAILED DRAWING S.D.D.12A3-B. THE NEW NAME PLATE SHALL SHOW THE CONCRETE DECK CONSTRUCTION YEAR. THE LOADING SHOWN ON THE PLATE SHALL BE "100 PSF." INCLUDE COST OF NAME PLATE AS INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

SEE ARCHITECTURAL/ELECTRICAL DRAWINGS FOR LIGHTING DETAILS.

THE CONCRETE DECK SHOULD FOLLOW THE ELEVATION OF THE TOP OF THE TIMBER TIES AND NOT NECESSARILY THE PROFILE. THE THICKNESS OF THE CONCRETE DECK MAY VARY BY 1/4 INCH IN ORDER TO PROVIDE A SMOOTHER TOP OF DECK ELEVATION.

DESIGN DATA

LIVE LOAD:

DESIGN100 PSF

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY SLAB AND BENCHES..... $f'_c = 4000$ PSI
ALL OTHER (STAIRS ON-GRADE)..... $f'_c = 3500$ PSI
HIGH STRENGTH BAR STEEL
REINFORCEMENT GRADE 6060,000 PSI

TREATED LUMBER AND TIMBER
STRUCTURAL JOISTS (4IN. OR LESS) $f_b = 1200$ PSI
IPE DECK (TABEBUIA SPP. LAPACHO GROUP, "IRON WOOD")... $f_b = 22,000$ PSI MIN.
..... $E_{mod} = 3,145,000$ PSI
STRUCTURAL CARBON STEEL..... $f_y = 36$ KSI MIN.

DESIGN DATA FOR TYPE S EPOXY ANCHORS			
ANCHOR SIZE	MIN. EMBED	ULTIMATE SHEAR (KIPS)	ULTIMATE PULLOUT (KIPS)
3/8"	5"	4.0	9.7
1/2"	5"	7.8	12.0
5/8"	6"	11.2	17.2

BENCHMARKS		
NUMBER	LOCATION	ELEVATION
BM#1	NW. BOLT TOP FLANGE OF FIRE HYDRANT ON WEST SIDE OF COMMERSE ST. ACROSS FROM LAKEFRONT BREWERY, INC.	105.23
BM#2	CHISEL + IN SOUTH END OF 12" WALL BETWEEN BITUMINOUS PATH AND THE BEGINNING OF THE CURVE IN THE PATH.	125.96



ESTIMATED QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
203.0200	REMOVING OLD STRUCTURE B-40-736	LS	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-40-736	LS	1
502.0100	CONCRETE MASONRY BRIDGES	CY	32
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	4590
506.0105	STRUCTURAL STEEL CARBON	LB	2620
506.0605	STRUCTURAL STEEL HS	LB	3200
507.0200	TREATED LUMBER AND TIMBER	MBM	2.1
602.1500	CONCRETE STEPS	SF	230
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	400
SPV.0060.01	TIMBER TIE REMOVAL AND RELOCATION 10 FOOT	EACH	20
SPV.0060.02	TIMBER TIE REPLACEMENT 4 FOOT	EACH	40
SPV.0060.03	TIMBER BRACE REPLACEMENT	EACH	2
SPV.0105.01	TRESTLE LANDING DECORATIVE RAILING B-40-736	LS	1
SPV.0105.03	WEST STAIRS DECORATIVE RAILING	LS	1
SPV.0105.04	TRESTLE AND NORTH LANDING WOOD DECKING B-40-736	LS	1

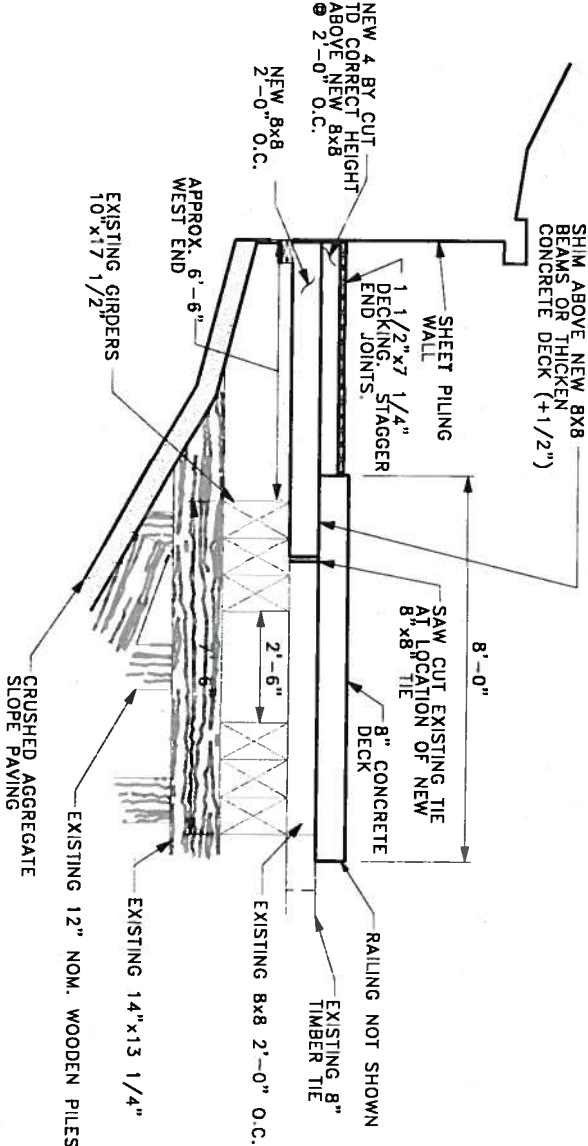
ABOVE QUANTITIES ARE ESTIMATED. PAYMENT IS BASED ON "AS-BUILT" QUANTITIES. SEE ARCHITECTURAL DRAWINGS FOR THE ELECTRICAL WORK ON THE STRUCTURE.

LIST OF DRAWINGS

- S1.1 GENERAL PLAN
- S1.2 QUANTITIES & GENERAL NOTES
- S1.3 DEMOLITION PLAN
- S1.4 FRAMING DETAILS
- S1.5 DETAILS
- S1.6 CONCRETE DECK DETAILS
- S1.7 DECK DETAILS
- S1.8 DECORATIVE RAILING DETAILS
- S1.9 WEST STAIRS

INCLUDES TRESTLE BENCHES
INCLUDES TRESTLE BENCHES
NEW CHANNELS AT EAST END

WEST STAIRS ONLY
INCLUDES REPAIR OF EXISTING AGGREGATE ON SLOPE



SECTION

3
S1.2

CITY OF MILWAUKEE CONTACT:
CRAIG LIBERTO 414-286-3294
CONSULTANT CONTACT:
ALBERT M. LINDNER 414-259-1500



One Honey Creek Corporate Center
125 South 84th Street,
Suite 401
Milwaukee, WI 53214-1470
414 / 259 1500
414 / 259 0037 fax
www.graf-usa.com

CONSULTANTS:

PROJECT TITLE:

B-40-736

ISSUE:

PROJECT INFORMATION:

PROJECT NUMBER: 20080114.00
DATE: 12/11/08
DRAWN BY: RBH
CHECKED BY: JRS
APPROVED BY: AML
SCALE:

SHEET TITLE:

QUANTITIES &
GENERAL NOTES

SHEET NUMBER:

S1.2

CONSULTANTS:

PROJECT TITLE:

B-40-736

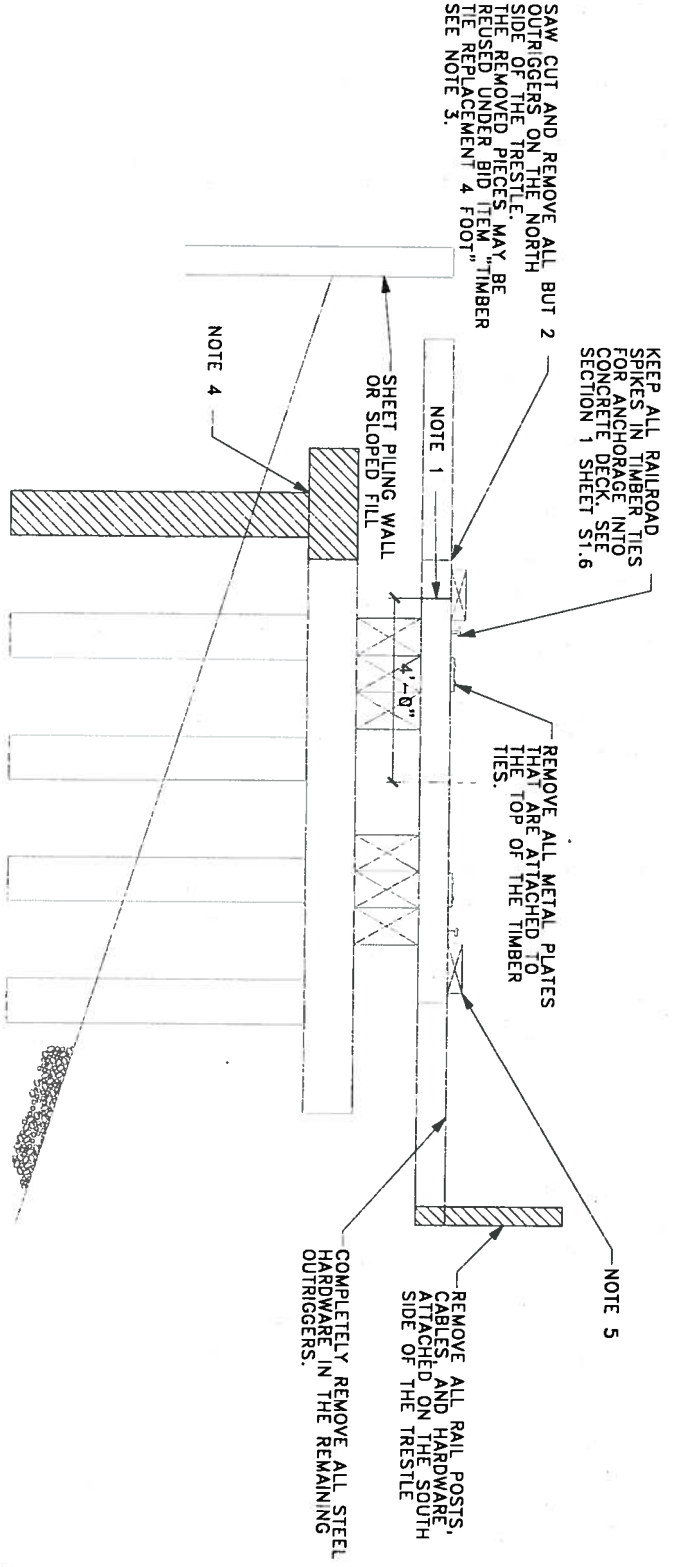
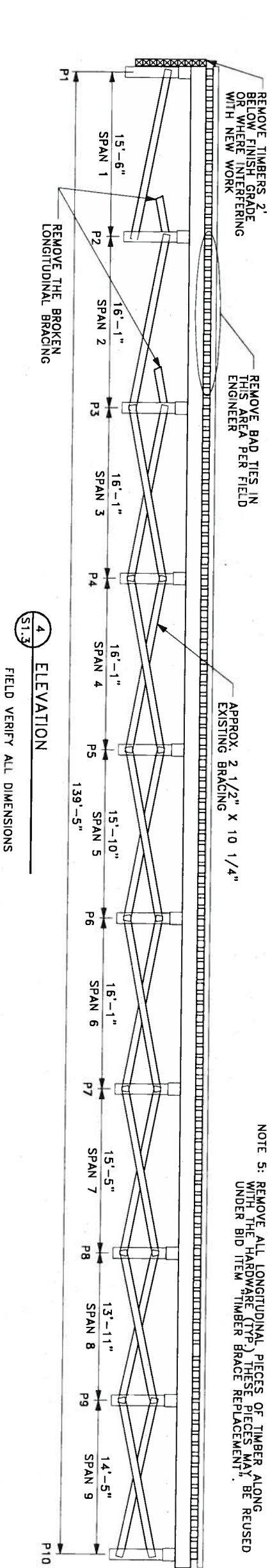
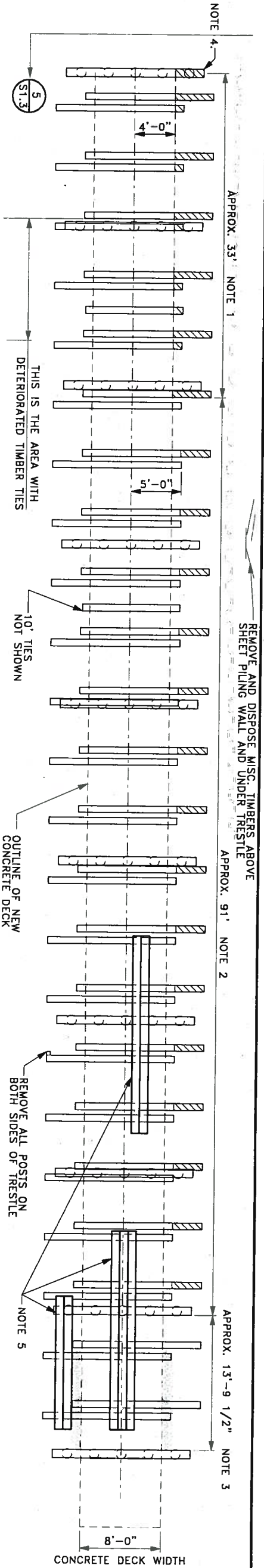
ISSUE:

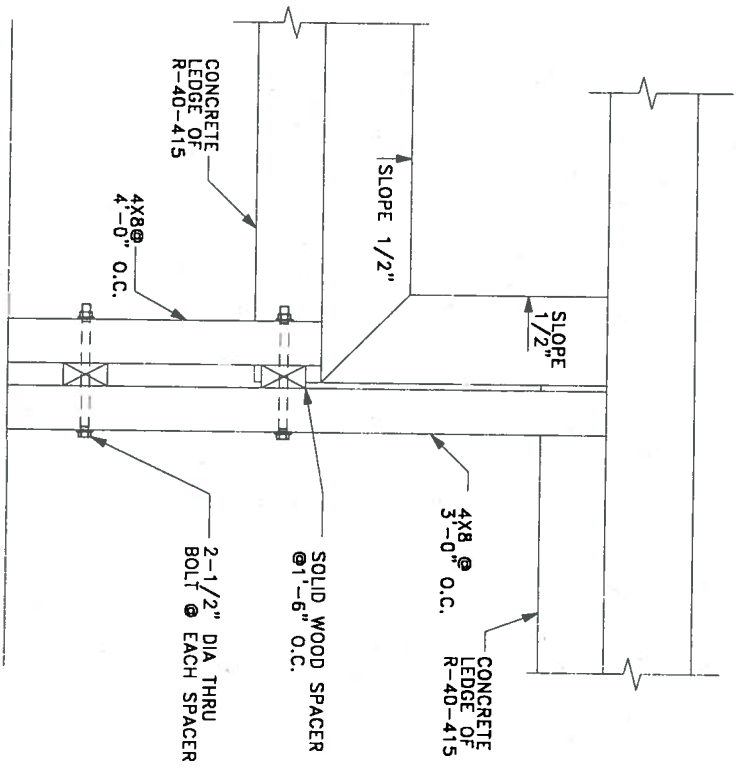
PROJECT INFORMATION:
PROJECT NUMBER: 20080714.00
DATE: 12/11/08
DRAWN BY: R/H
CHECKED BY: JRS
APPROVED BY: AML
SCALE:

SHEET TITLE:
DEMOLITION
PLAN

SHEET NUMBER:

S1.3

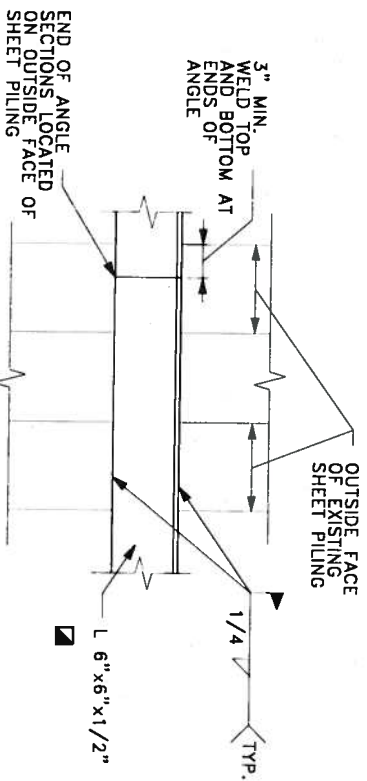




LOOKING EAST

*** VERIFY IN FIELD**

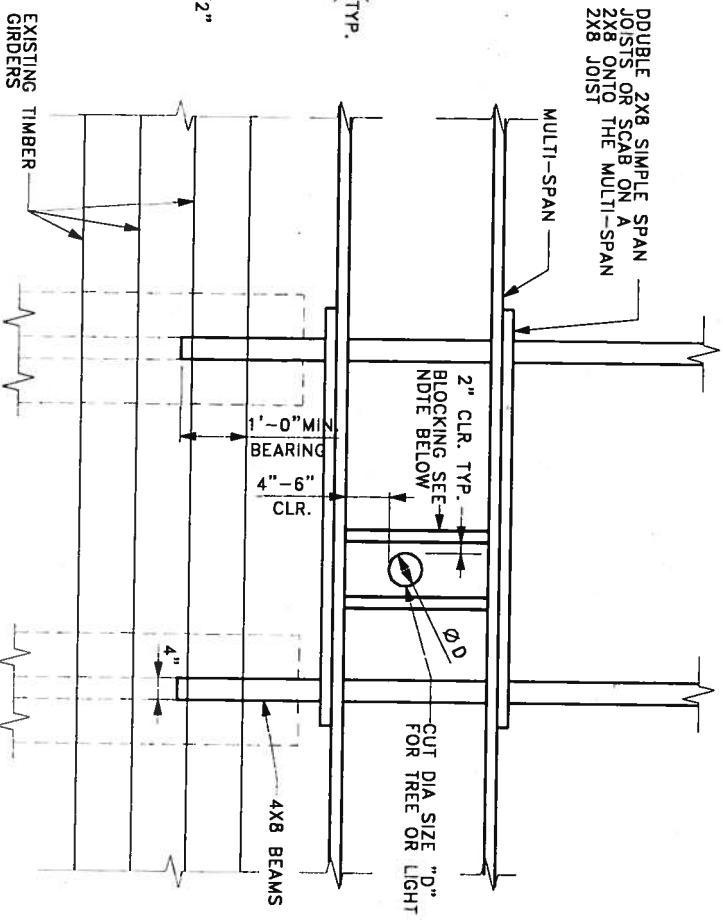
LOOKING NORTH



(

PROVIDE STRUCTURAL CARBON STEEL AS DESCRIBED IN SECTION 506 OF THE WISDOT SPECIFICATIONS. MATERIAL TO BE PRIMED AND PAINTED AS INCIDENTAL TO THE BID ITEM. FINAL TOP COAT COLORS TO BE FEDERAL #30059, MATTE FINISH. BROWN.

7

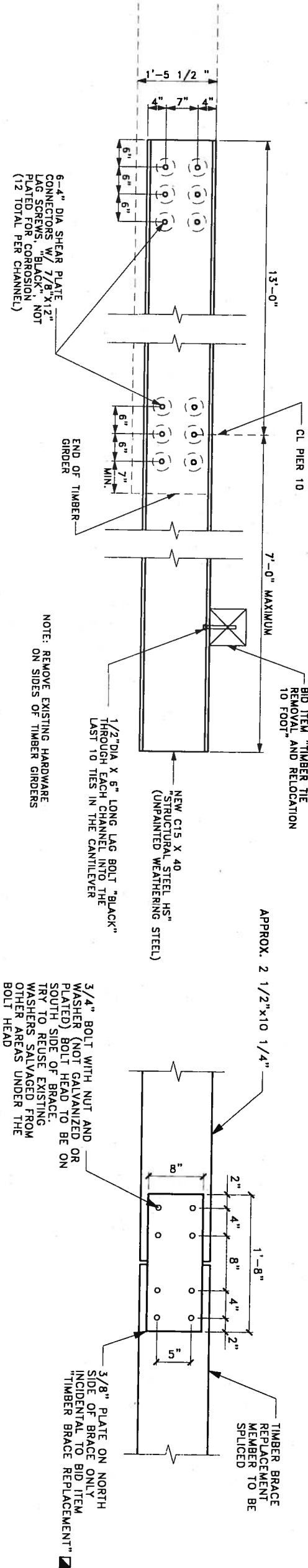


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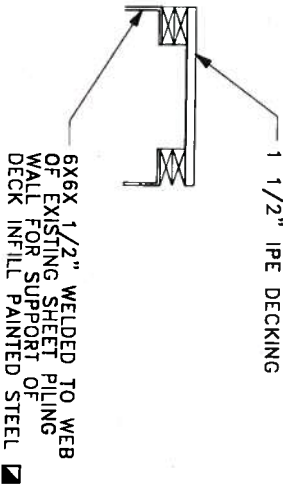
USE 2X6 BLOCKING FOR FRAMING OF LIGHTS.

(

USE 2X6 BLOCKING FOR FRAMING OF LIGHTS.

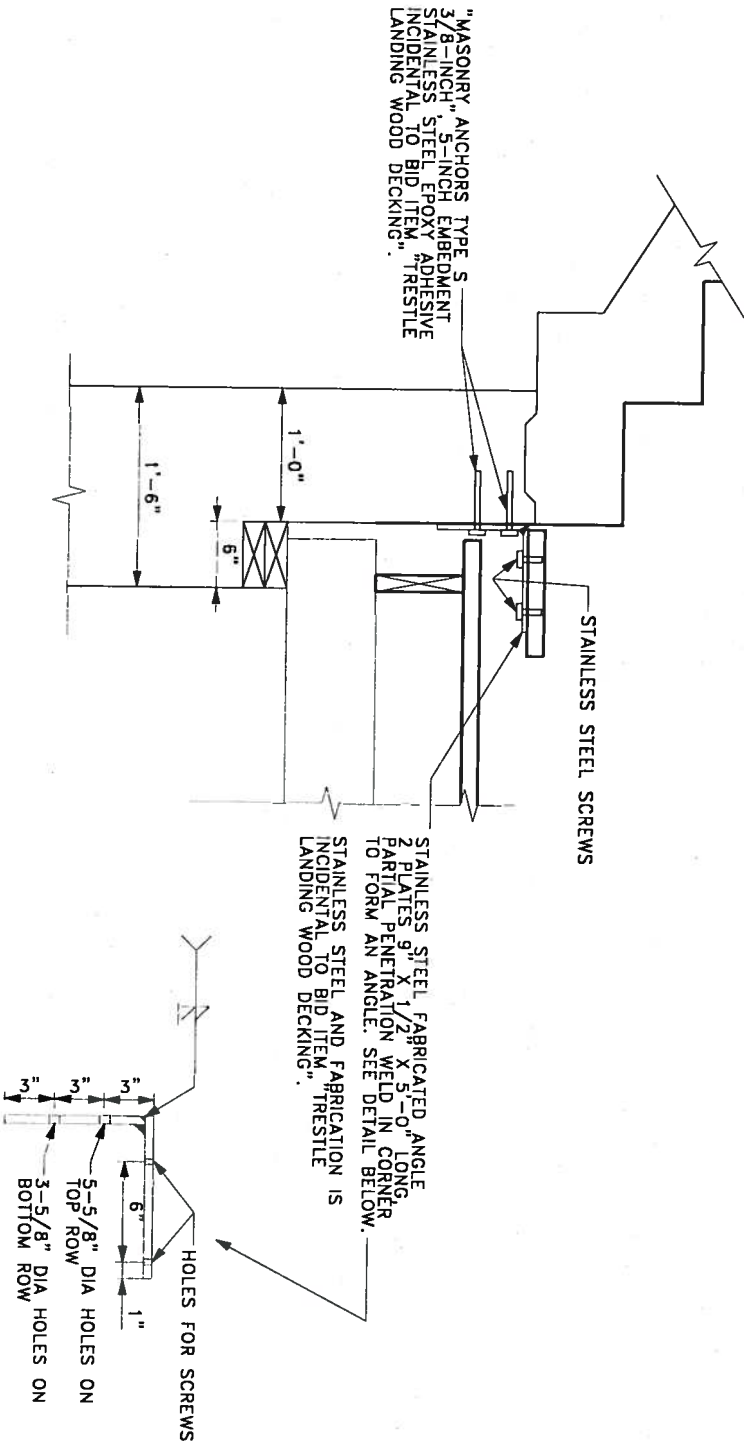


2 DETAIL

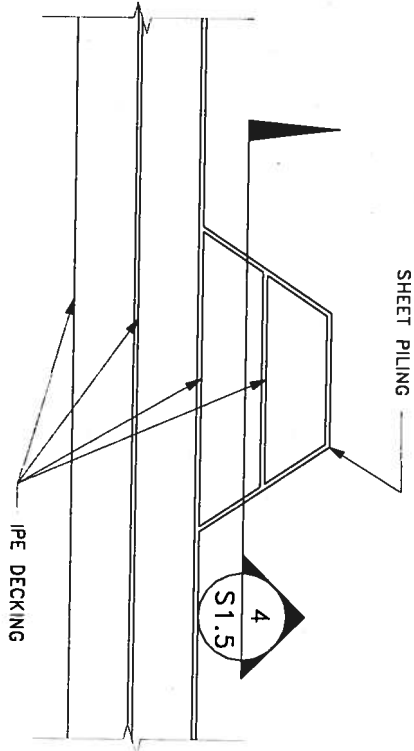


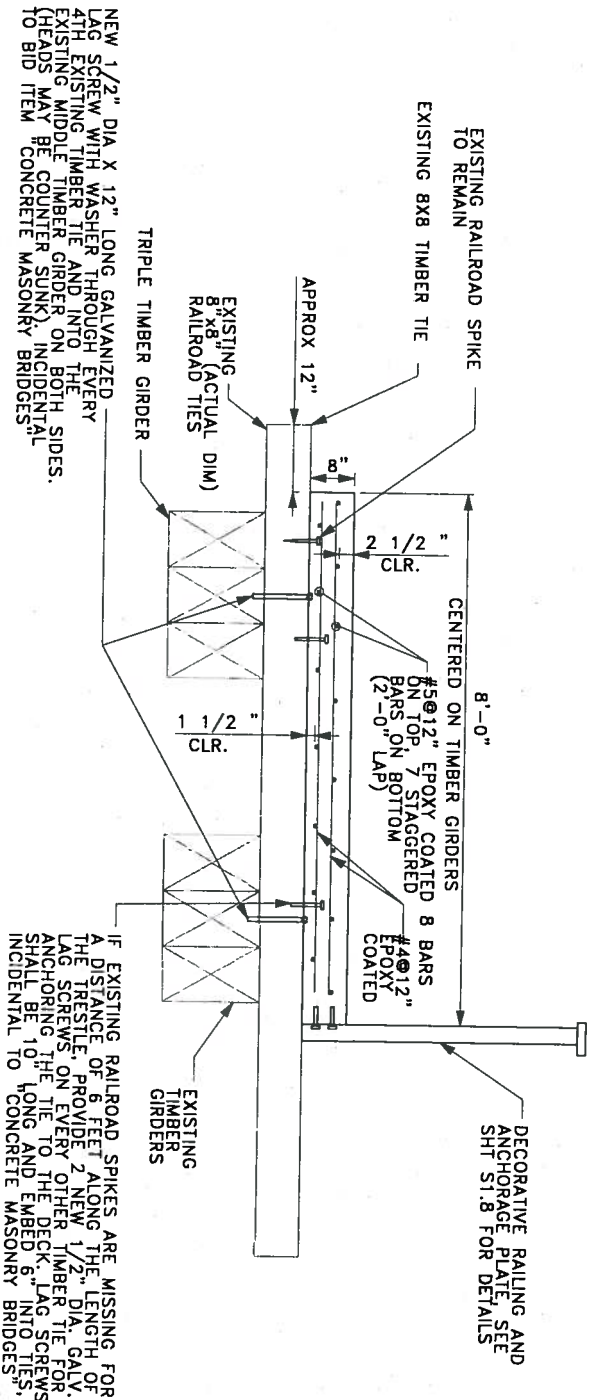
4 DETAIL

PROVIDE STRUCTURAL CARBON STEEL AS DESCRIBED IN SECTION 506 OF THE WISDOT SPECIFICATIONS. MATERIAL TO BE PRIMED AND PAINTED AS INCIDENTAL TO THE BID ITEM. FINAL TOP COAT COLORS TO BE FEDERAL #30039, MATTE FINISH BROWN.

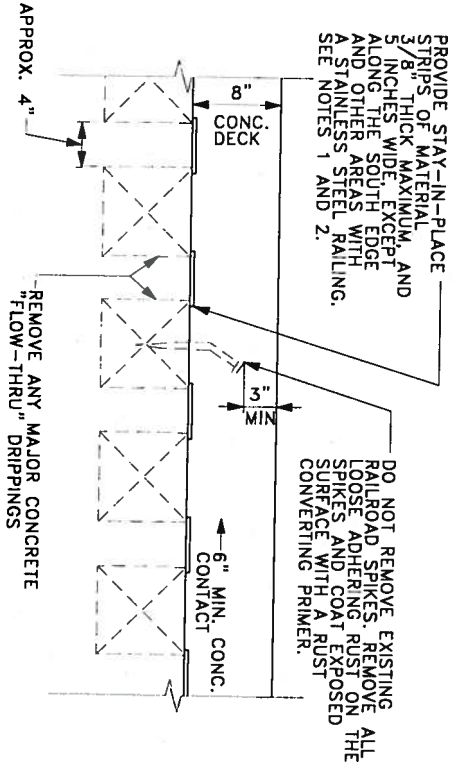


5 DETAIL





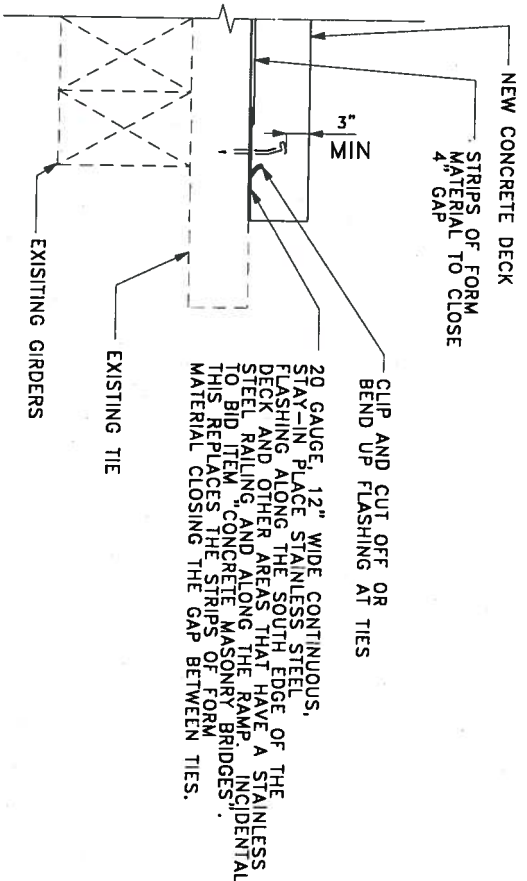
1 SECTION



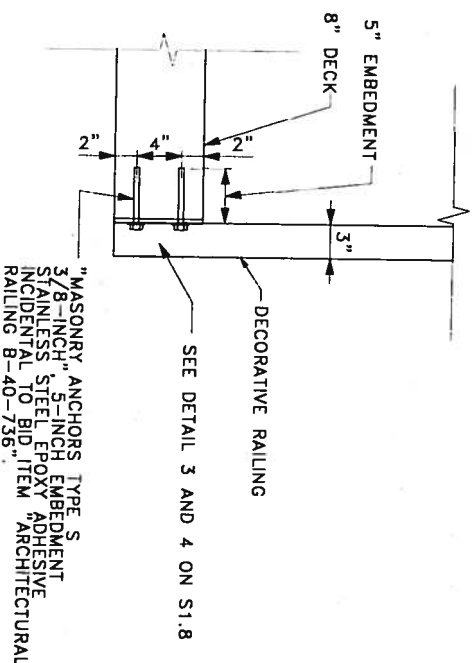
3 SECTION

NOTE 1. STAY-IN-PLACE FORMS MAY BE WIDER THAN 5". (AS ALLOWED WHEN GOOD TIES ARE ON EACH SIDE OF A DETERIORATED TIE).

NOTE 2. DESIGN FORM MATERIAL FOR ALL CONSTRUCTION LOADS AND CONDITIONS. APPEARANCE OF MATERIAL SHALL BE APPROVED BY THE FIELD ENGINEER.



2 SECTION



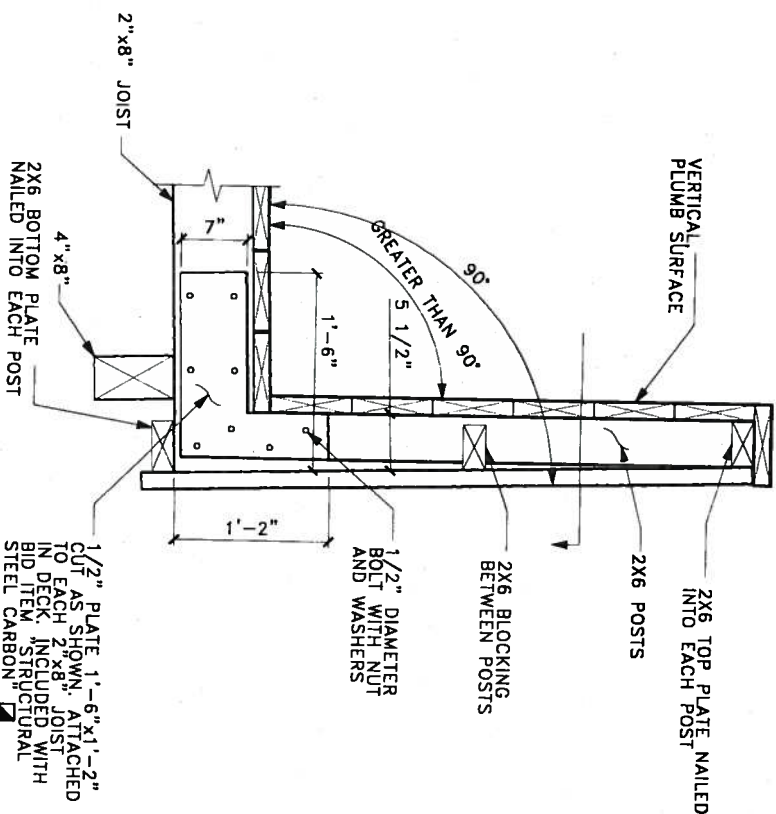
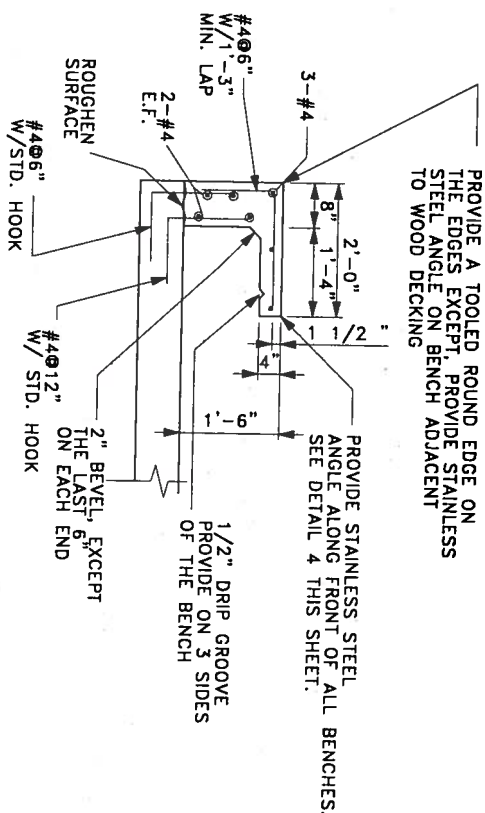
4 SECTION

CONSULTANTS:

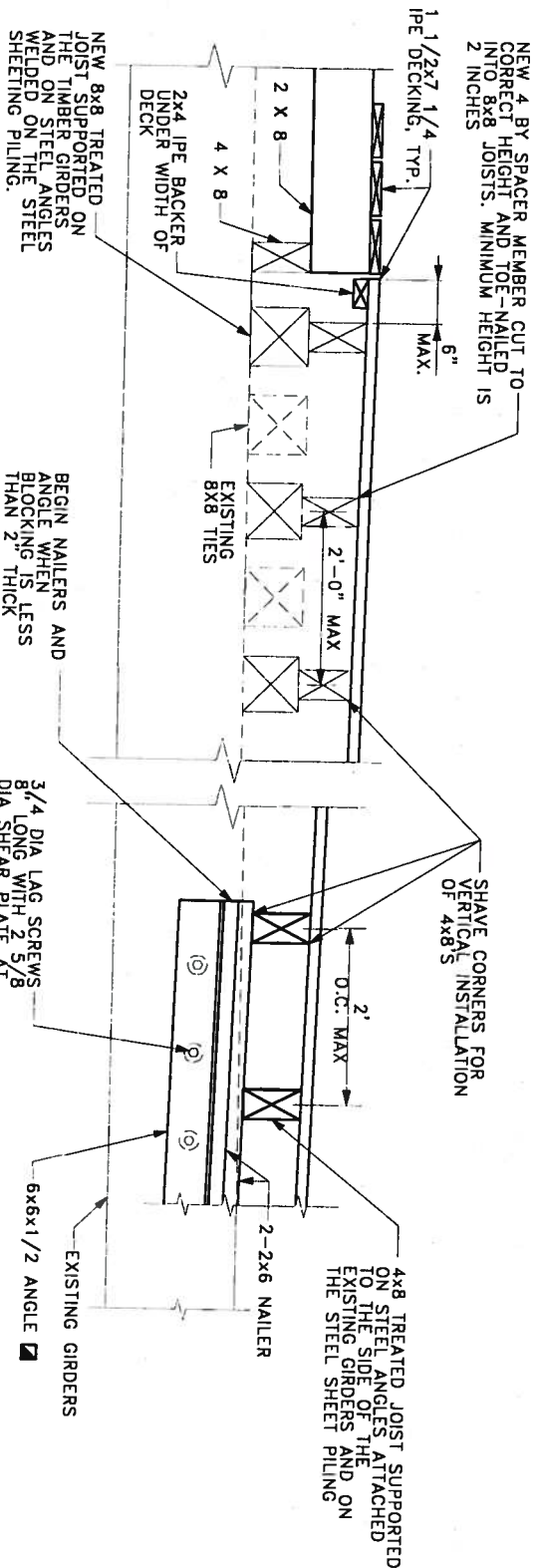
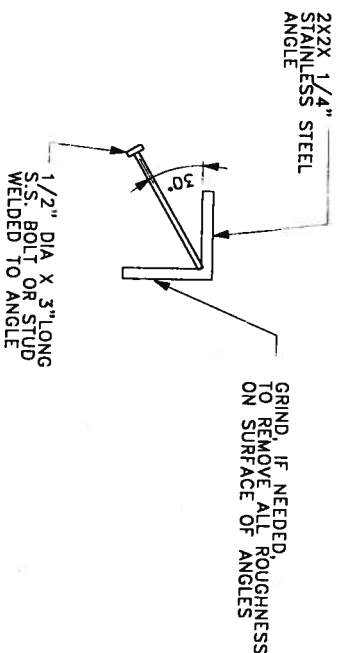
PROJECT TITLE:

B-40-736

ISSUE:



ALL BENCH REINFORCEMENT BARS SHALL BE GALVANIZED COATED AND PAID BY THE POUND INCLUDED IN THE BID ITEM "BAR STEEL REINFORCING HS COATED BRIDGES."



PROVIDE STRUCTURAL CARBON STEEL AS DESCRIBED IN SECTION 506 OF THE WISDOT SPECIFICATIONS. MATERIAL TO BE PRIMED AND PAINTED AS INDICATED. MATERIAL BID ITEM "FINAL TOP COAT COLORS TO BE FEDERAL #3DD59, MATTE FINISH, BROWN."

PROJECT INFORMATION:
PROJECT NUMBER: 2008014.00
DATE: 12/11/08
DRAWN BY: R/H
CHECKED BY: J/S
APPROVED BY: A/M
SCALE:

SHEET TITLE:

DECK DETAILS

SHEET NUMBER:

S1.7

One Honey Creek Corporate Center
125 South 84th Street,
Suite 401
Milwaukee, WI 53214-1470
414 / 259 1500
414 / 259 0037 fax
www.gr2ef-usa.com

CONSULTANTS:

PROJECT TITLE:
B-40-736

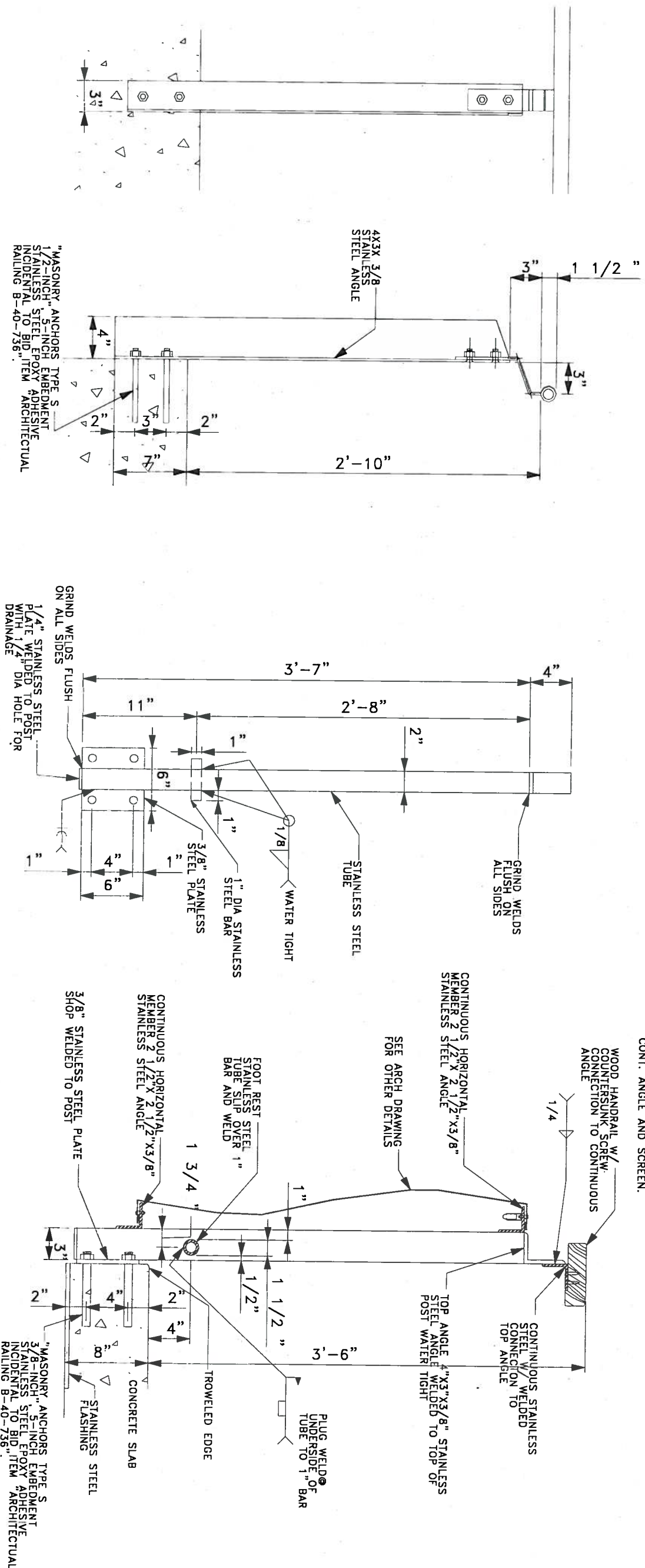
ISSUE:

PROJECT INFORMATION:
PROJECT NUMBER: 20080114.00
DATE: 12/11/08
DRAWN BY: RBH
CHECKED BY: JRS
APPROVED BY: AML
SCALE:

SHEET TITLE:
DECORATIVE
RAILING DETAILS

SHEET NUMBER:

S1.8



EL = 108'-1"

2'-0" MIN

1'-10"

6'-0"

14'-3"

6'-5"

1'-9"

16'-0"

SUPPORT WEST WALL ON FOOTING TYP

ON EAST EDGE

2'-0" MIN

8" THICK WALL ON WEST EDGE OF STAIRS

2-#5 INTO WALL TYP

1'-0" TYP

2-#5 TYP

PAY LIMIT OF WALL "CONCRETE STEPS". #4@12" EACH WAY

FORM EDGE OF SLAB DO NOT POUR CONCRETE WITHIN THE SHEET P...

AT WEST STAIRS
*** FIELD VERIFY**

GRAVEL INFILL SHALL BE PLACED LEVEL IN ALL AREAS BETWEEN THE NORTH FACE OF THE EXISTING SHEET PILING WALL AND TO THE TOP OF THE NEW 5/8" INCH STEEL PLATES OR TO THE TOP EDGE OF THE CONCRETE STEPS.

EXISTING SHEET PILING

STEP TYP.

1

3/8" PLATE TO BE INCIDENTAL
TO BID ITEM "CONCRETE STEPS"

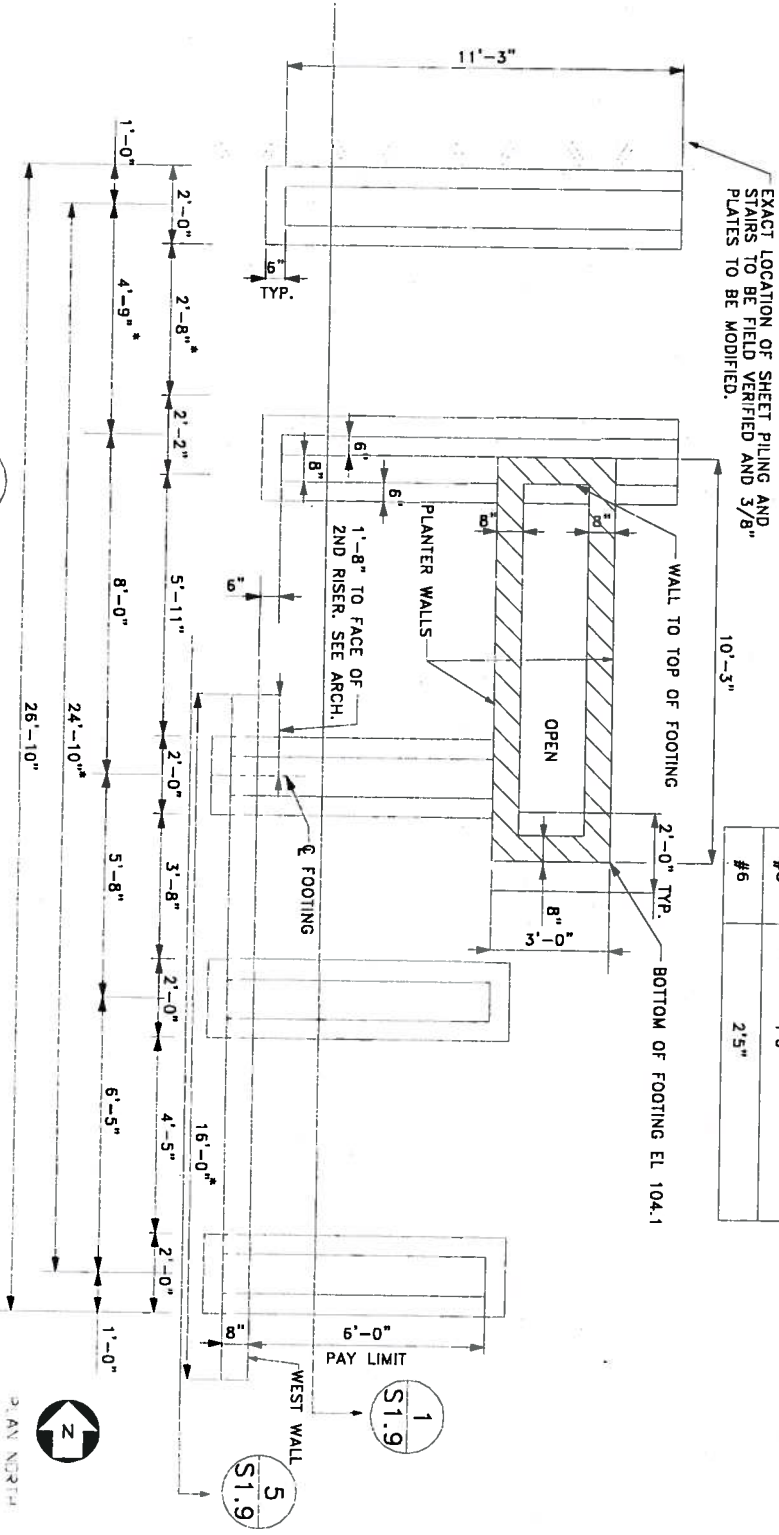
NOTES:

1. ALL REINFORCING TO BE EPOXY COATED.
2. ALL CONCRETE REINFORCING AND 3/8" PLATE, SHOWN ON THIS SHEET ARE INCLUDED IN BID ITEM "CONCRETE STEPS" PAY LIMITS AS SHOWN AND MEASURED IN PLAN. THE TOTAL AREA BETWEEN THE WALLS OF THE PLANTER SHALL BE ADDED TO THE BID ITEM "CONCRETE STEPS"

E.F. EACH FACE

	MIN LAPS THIS SHEET
#4	1'0"
#5	1'0"
#6	2'5"

FIELD VERIFY



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES SHALL BE PROPOSED GROUNDLINE BEHIND THE RETAINING WALL.
BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE NOTED.
BACKFILL THE FRONT FACE OF WALL BEFORE THE BACK FACE.
ALL REINFORCING ABOVE THE TOP OF THE FOOTING SHALL BE EPOXY COATED, INCLUDING THE VERTICAL DOWEL BARS THAT ARE IN EMBEDDED INTO THE FOOTING.
2X6 BEVELED KEYWAY
CONTRACTOR SHALL SUPPLY A NAME PLATE IN ACCORDANCE WITH SECTION 520.3.11 OF THE STANDARD DETAILED DRAWING S.D.D. 12A3-B. THE NEW NAME PLATE SHALL SHOW THE WALL'S CONSTRUCTION YEAR, INCLUDE COST OF NAME PLATE AS INCIDENTAL TO BID ITEM "CONCRETE MASONRY RETAINING WALL".

DESIGN DATA

CONCRETE MASONRY, FOOTING..... f'_c = 3500 PSI
CONCRETE MASONRY, RETAINING WALLS..... f'_c = 4000 PSI
ALL OTHER (STAIRS-ON-GRADE)..... f'_c = 3500 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT.....60,000 PSI

FOUNDATION DESIGN DATA

THE ALLOWABLE SOIL PRESSURE OF 3000 PSF WAS USED FOR THE SPREAD FOOTING ABUTMENT DESIGN FOR THE ADJACENT PEDESTRIAN BRIDGE. THE ALLOWABLE SOIL PRESSURE FOR THE DESIGN OF THIS RETAINING WALL WILL BE 2000 PSF.
LEDGE FOR WOOD NAILER TO FOLLOW SLOPE OF CONCRETE DECK OF B-40-736
1/2" DIA. GALV. THREADED ANCHOR BOLT 12" LONG FOR DOUBLE SILL PLATE 2'-0" O.C.

LIST OF DRAWINGS

- 1. GENERAL PLAN AND ELEVATION
- 2. CROSS SECTION AND DETAILS



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CONSULTANTS:

PROJECT TITLE:

R-40-416

ISSUE:



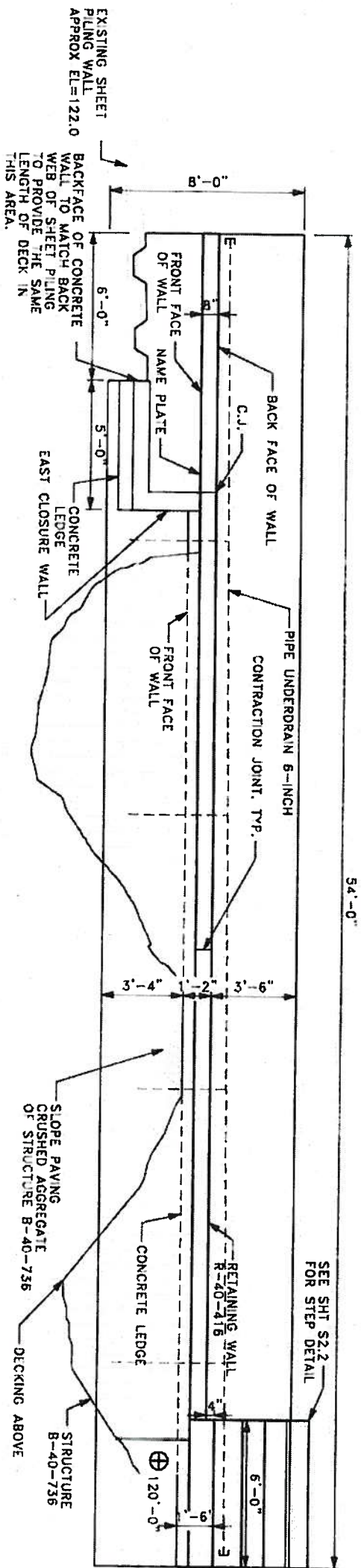
PROJECT INFORMATION:

PROJECT NUMBER: 20080114.00
DATE: 12/1/08
DRAWN BY: RBH
CHECKED BY: JRS
APPROVED BY: AML
SCALE:

SHEET TITLE:
GENERAL PLAN
AND ELEVATION

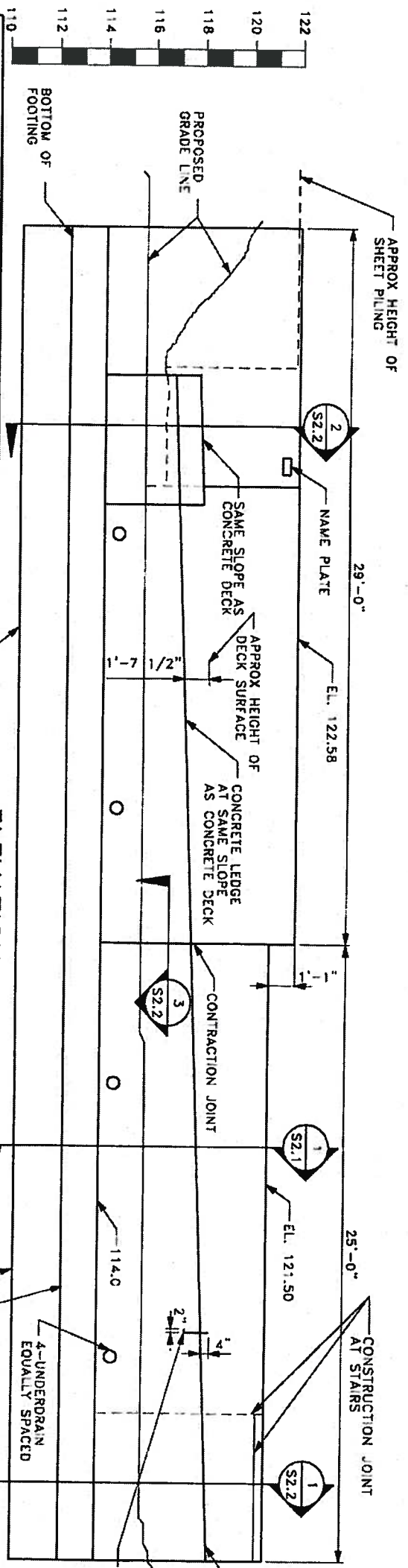
SHEET NUMBER:

S2.1



PLAN R-40-416

CAST-IN-PLACE CONCRETE RETAINING WALL



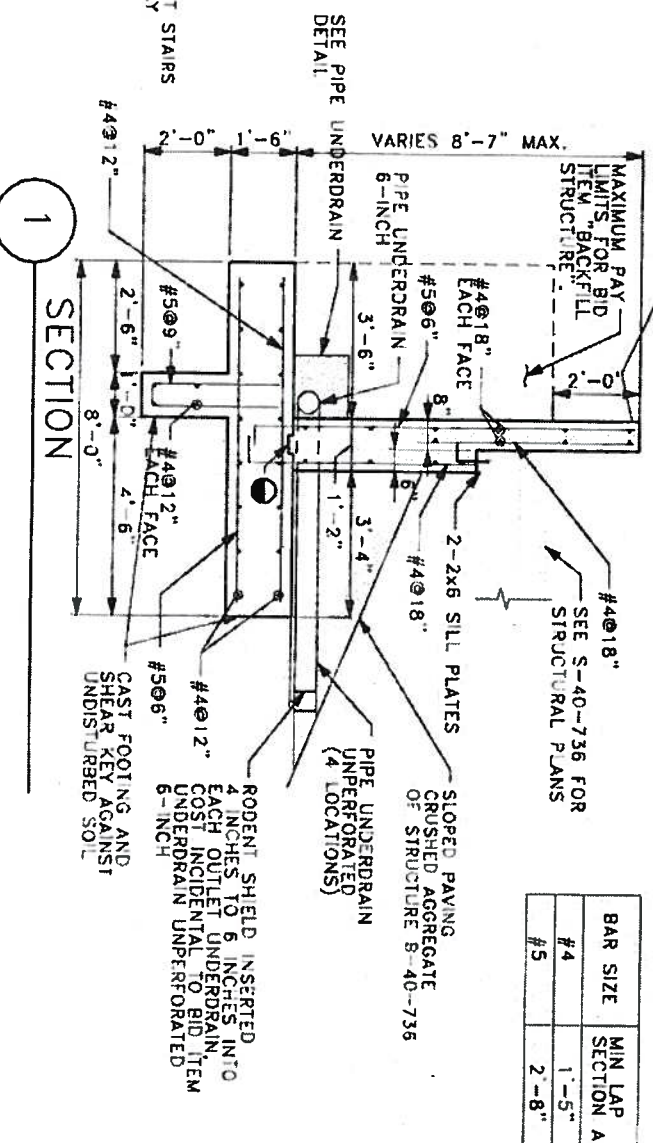
ELEVATION

⊕ ELEVATIONS

NUMBER	LOCATION	ELEVATION
BM#1	NW BOLT TOP FLANGE OF FIRE HYDRANT ON WEST SIDE OF COMMERCE ST. ACROSS FROM LAKEFRONT BREWERY, INC.	105.23
BM#2	CHISELED + IN SOUTH END OF 12" WALL BETWEEN BITUMINOUS PATH AND THE BEGINNING OF THE CURVE IN THE PATH.	125.96

ESTIMATED QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
206.3000	EXCAVATION FOR STRUCTURES RETAINING WALL	LS	1
210.0100	BACKFILL STRUCTURE	CY	46
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	44
505.0415	BAR STEEL REINFORCEMENT HS RETAINING WALLS	LB	2700
505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB	2720
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	3
602.1500	CONCRETE STEPS	SF	57
612.0106	PIPE UNDERDRAIN 6-INCH	FOOT	54
612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	FOOT	32
645.0100	GEOTEXTILE FABRIC TYPE DF	SF	405
SPV.0105.02	EAST STAIR DECORATIVE RAILING	LS	1

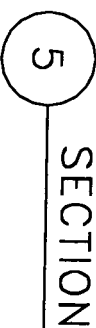
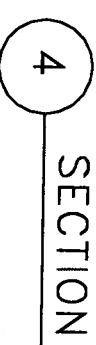
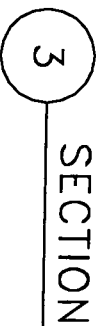
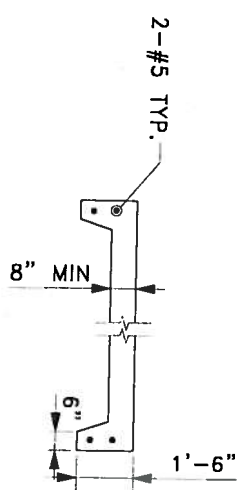
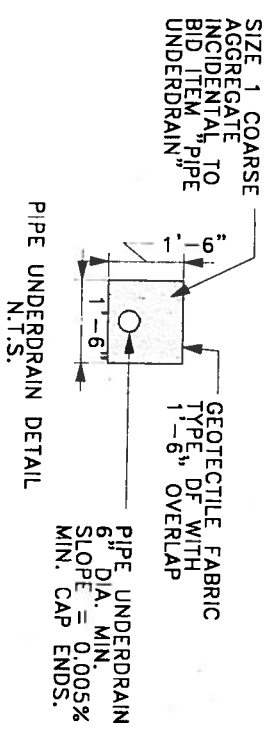
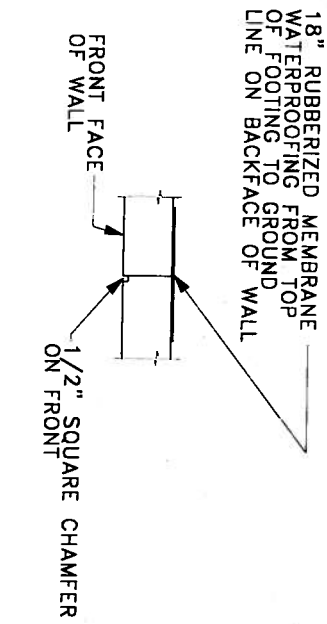
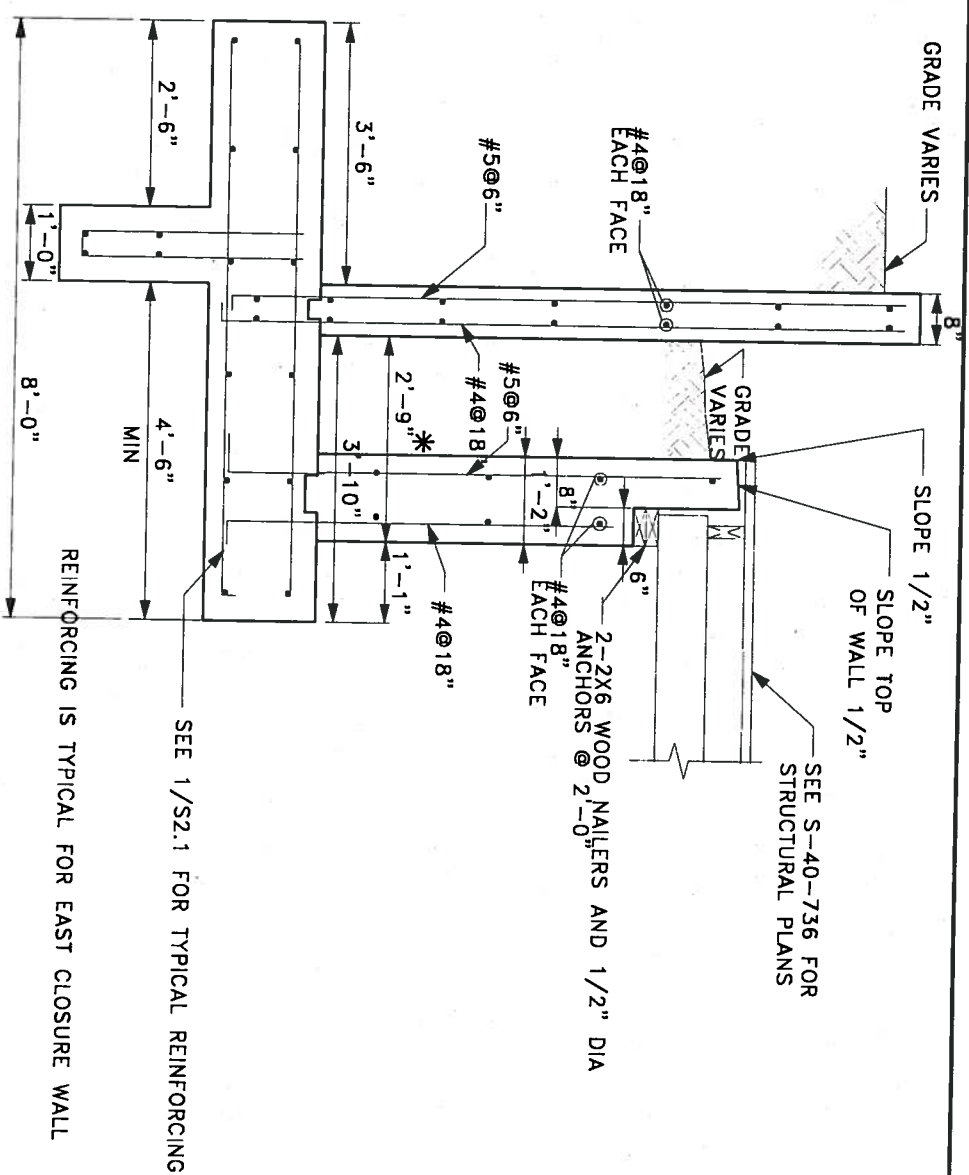
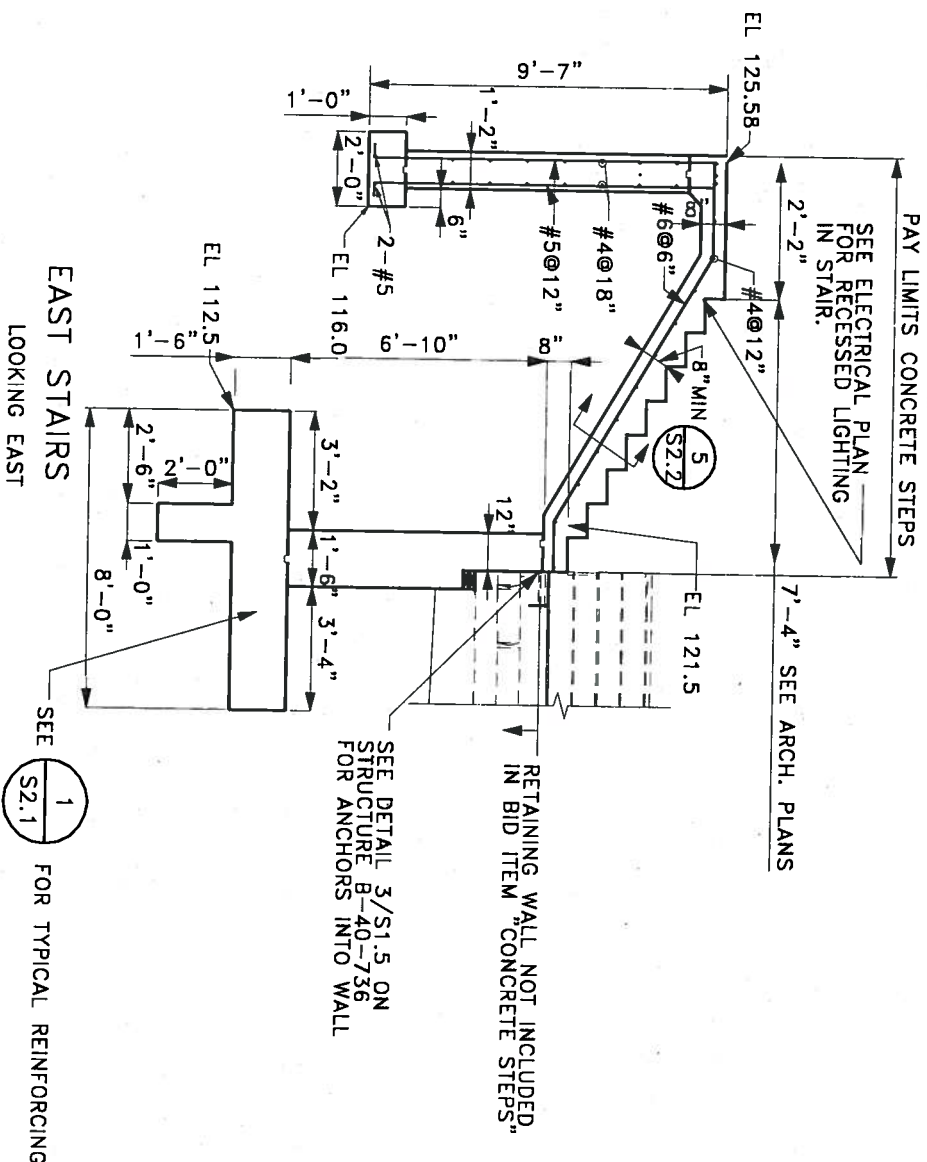


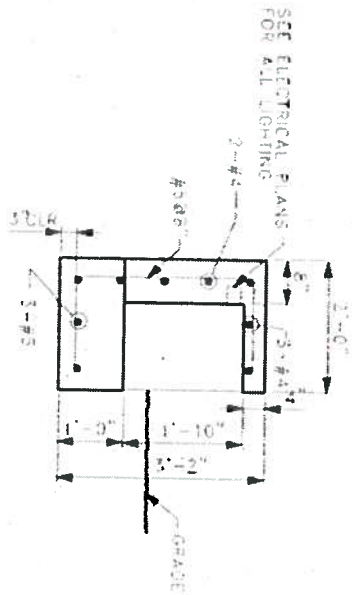
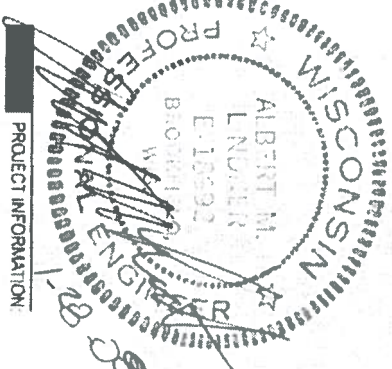
SECTION



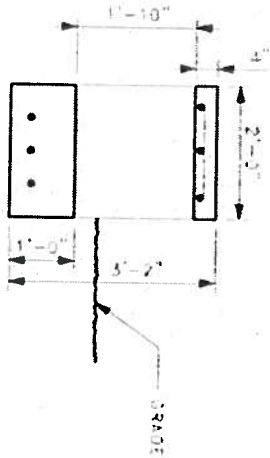
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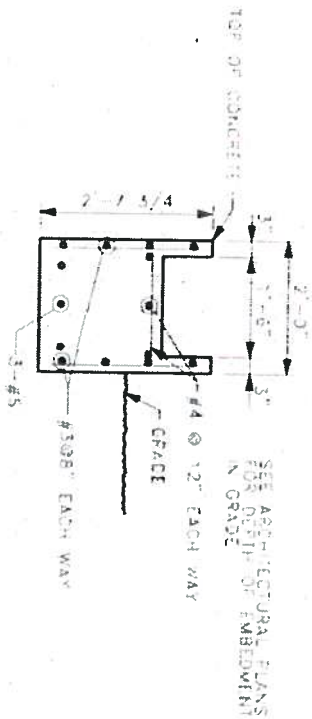




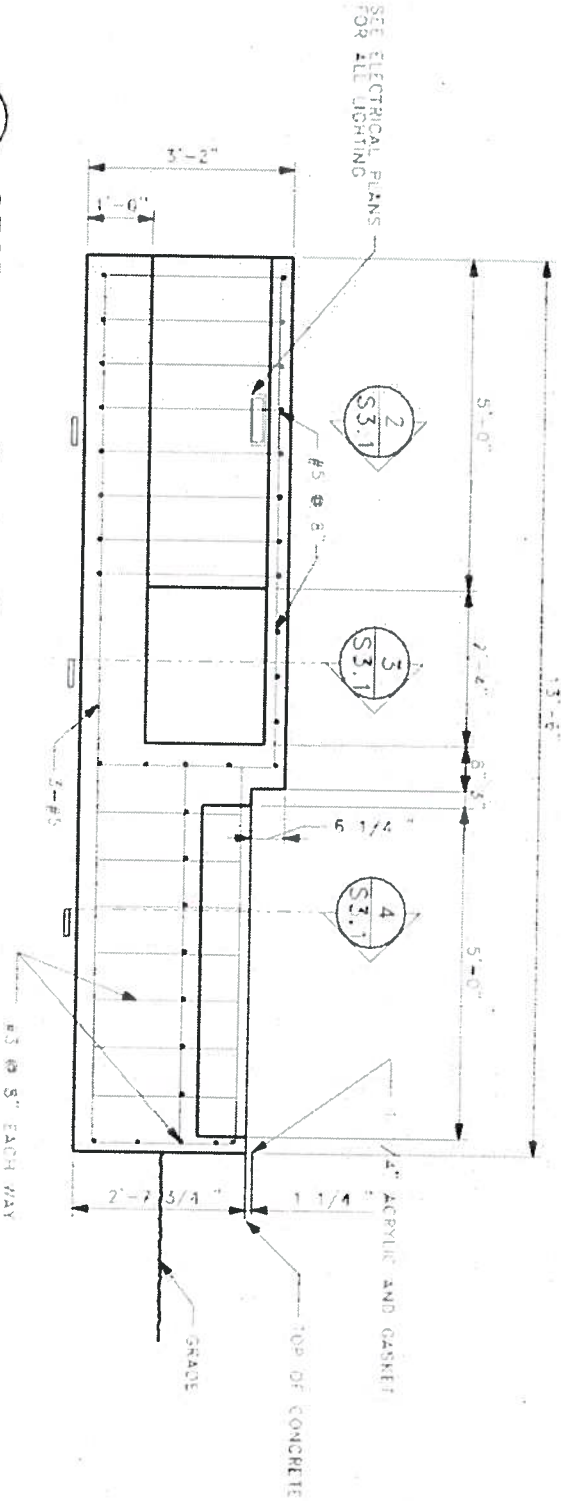
2 SECTION THROUGH BENCH
SCALE: 1/4"=1'-0"



3 SECTION THROUGH BENCH
SCALE: 1/4"=1'-0"



4 SECTION THROUGH BENCH
SCALE: 1/4"=1'-0"



1 SECTION THROUGH BENCH
SCALE: 1/4"=1'-0"

NOTE: ITEMS ON THIS SHEET TO BE
INCLUDED IN 90 DEGREE CONCRETE
BENCHES.
ALL REINFORCING ON THIS
SHEET TO BE GALVANIZED COATED.